

PHOTOMETRY

# ParKolor<sup>120HD</sup>



**ParKolor 120HD** is a color changer equipped with a 120W RGBW COB LED providing a luminous flux of 2,000 lumens, and a 7 to 50° zoom.

Its control electronics provide access to multiple functions such as dimmer curve management, white color temperature calibration, internal program recall and manual color creation. Power and DMX connectors are IP65 rated.

**ParKolor 120HD** is equipped with the BC Color System color management system, enabling color control in all situations. In addition to the ability to calibrate colors and whites independently for perfect integration with existing equipment, this system enables color management from a given white, as if the machine were being used with gel.



**Starway**  
[starway.eu](http://starway.eu)

# Table of Contents

|                                         |    |
|-----------------------------------------|----|
| Specifications .....                    | 3  |
| Photometric Data Narrow Zoom.....       | 4  |
| Photometric Data Medium Zoom .....      | 5  |
| Photometric Data Wide Zoom.....         | 6  |
| Macro 10000K Spectrum Test Report ..... | 7  |
| Macro 8000K Spectrum Test Report .....  | 9  |
| Macro 6500K Spectrum Test Report .....  | 11 |
| Macro 5600K Spectrum Test Report .....  | 13 |
| Macro 5000K Spectrum Test Report .....  | 15 |
| Macro 4500K Spectrum Test Report .....  | 17 |
| Macro 4000K Spectrum Test Report .....  | 19 |
| Macro 3200K Spectrum Test Report .....  | 21 |
| Macro 3000K Spectrum Test Report .....  | 23 |
| Macro 2700K Spectrum Test Report .....  | 25 |
| RGBW @100% Spectrum Test Report.....    | 27 |
| Red @100% Spectrum Test Report.....     | 28 |
| Green @100% Spectrum Test Report .....  | 29 |
| Blue @100% Spectrum Test Report.....    | 30 |
| White @100% Spectrum Test Report.....   | 31 |

[Find the Technical Datasheet here :](#)



## Download

[Manual](#)



[DMX Chart](#)



[All Downloads](#)



## Source

|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| Engine            | COB RGB White                                                 |
| LED Watts         | 120W                                                          |
| Engine CCT        | 7177K (White LED Only)                                        |
| Engine Life (L70) | > 55000 H                                                     |
| Refresh Rate      | 1200Hz                                                        |
| Dimming           | Electronic - 16 bits                                          |
| Dimming Curves    | Linear, Square, Inv Square, S-curve                           |
| Dimming Modes     | Dim0 (0s), Dim1 (0.25s), Dim2 (0.5s), Dim3 (0.75s), Dim4 (1s) |
| Strobe Speed      | 1 - 20 Hz                                                     |
| Strobe Modes      | Standard, Sync Random, Random                                 |

## Performances

|                             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| Fixture Luminous Flux (Max) | 2000 lm                                                                  |
| Fixture Illuminance         | Narrow: 3400 lux@5m 7°<br>Medium: 757 lux@5m 20°<br>Wide: 240 lux@5m 50° |
| Fixture CCT Output          | 2700 - 10000 K                                                           |
| CRI                         | Native White LED Only: 72.8<br>@8000k: 67.43                             |
| Tm30                        | Native White LED Only: 71.56<br>@8000k: 77.84                            |
| TLCI                        | Native White LED Only: 51.53<br>@8000k: 50.67                            |
| CQS                         | Native White LED Only: 71.22<br>@8000k: 81.94                            |

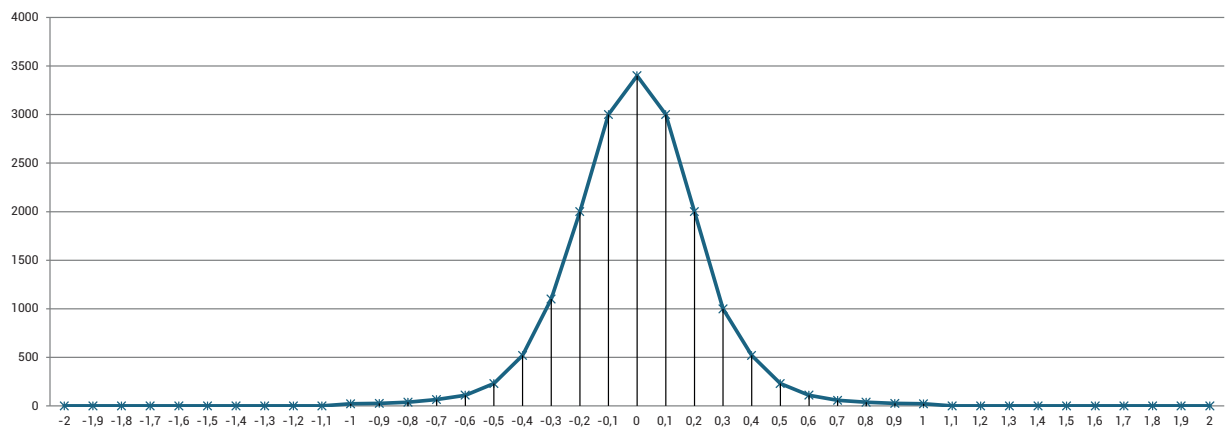
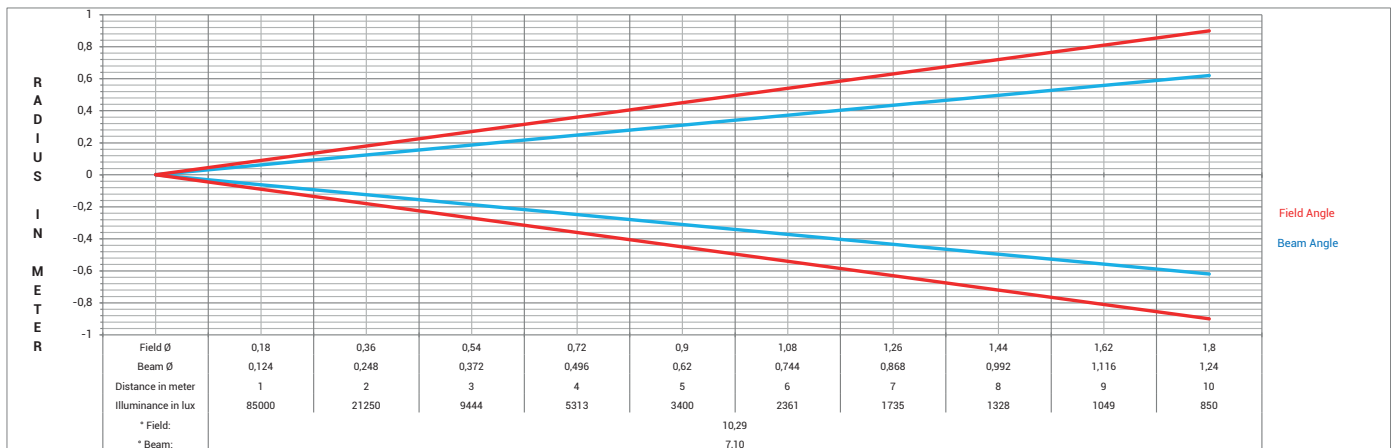
## Optical

|               |          |
|---------------|----------|
| Lens Diameter | 180 mm   |
| Zoom Range    | 7° - 50° |
| Zoom Ratio    | 7.1 :1   |

## Colour System

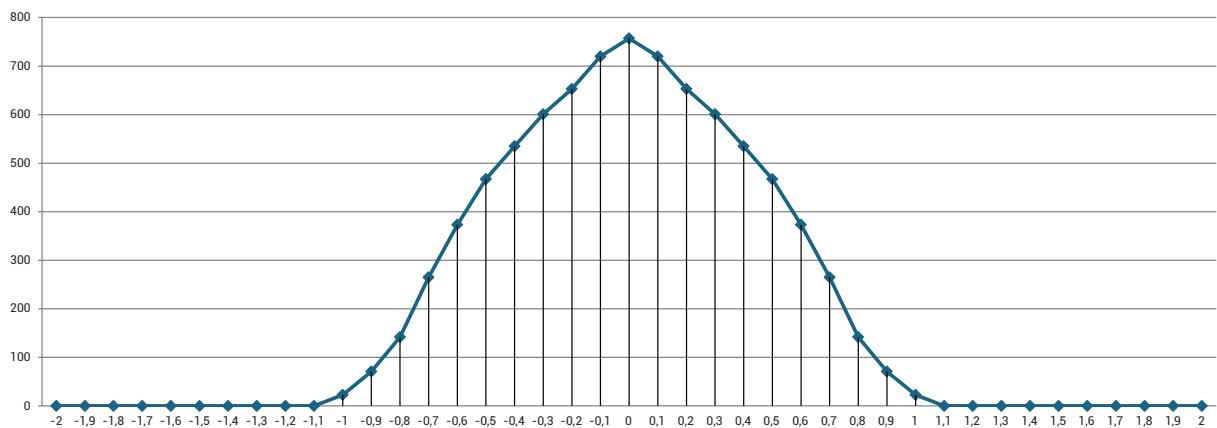
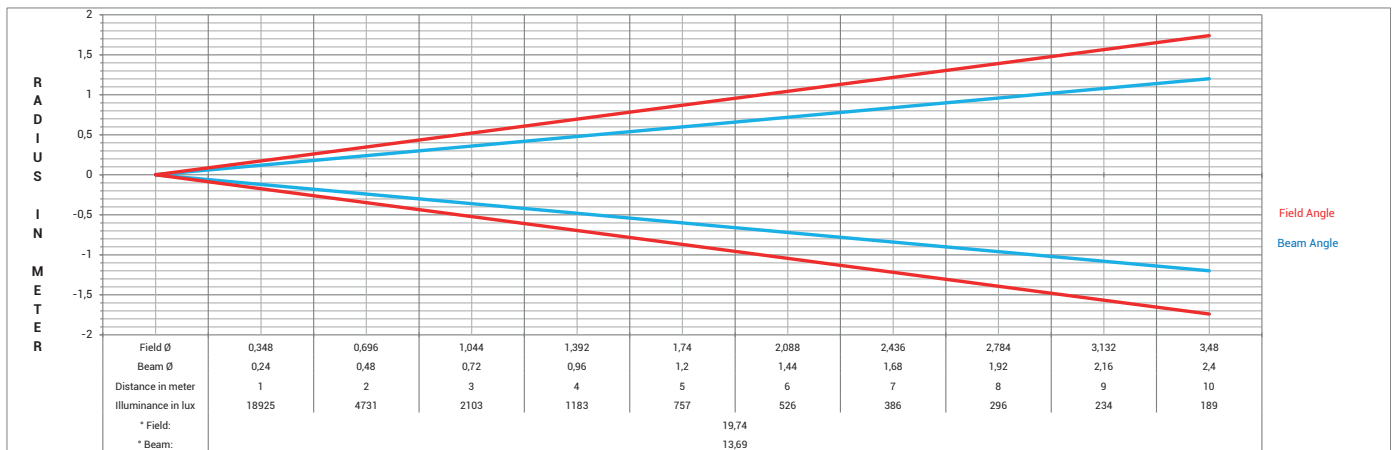
|               |                        |
|---------------|------------------------|
| Colour System | RGBW - BC Color System |
| Control       | 8 bits / 16 bits       |

## Photometric Data - Narrow Zoom

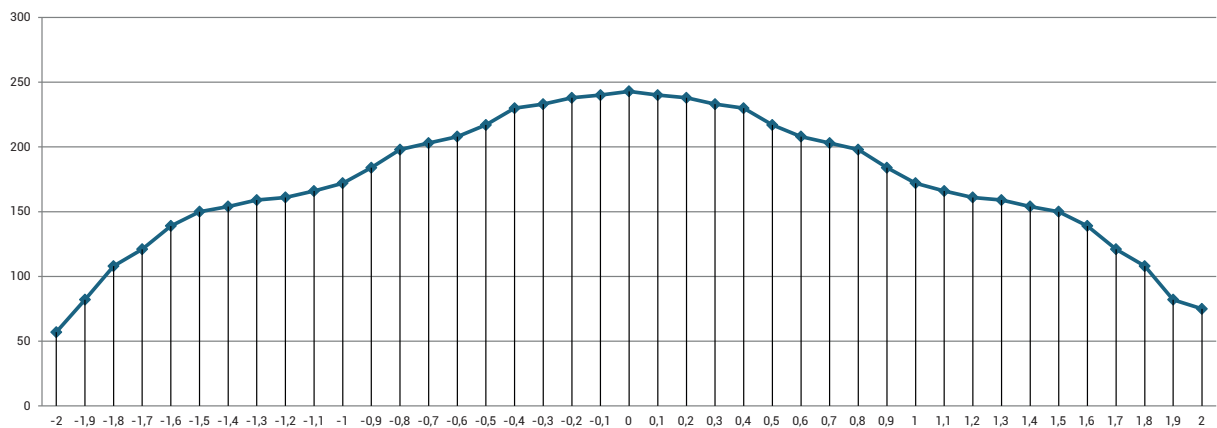
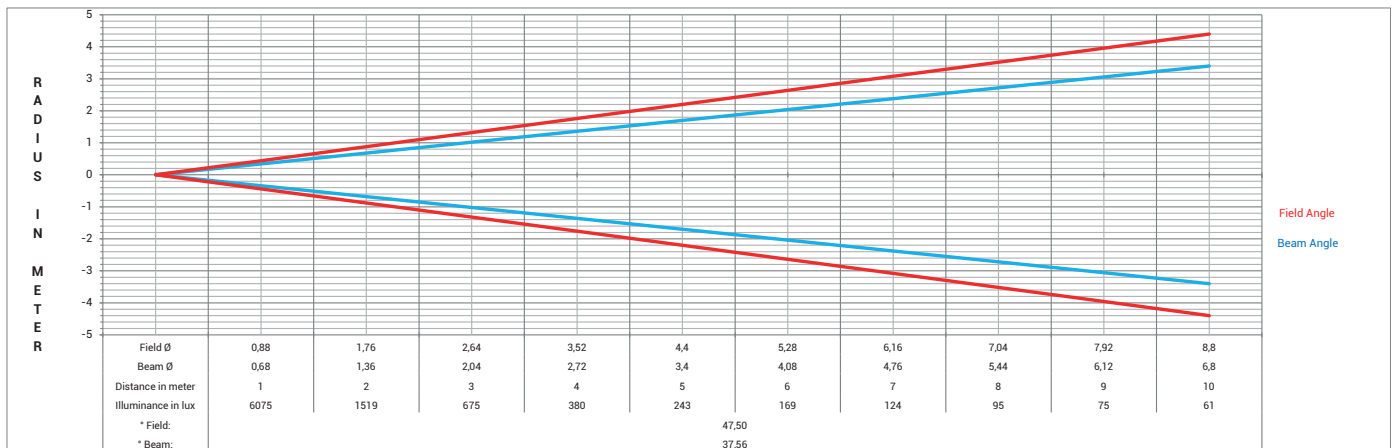




## Photometric Data - Medium Zoom



## Photometric Data - Wide Zoom



## Macro 10000K Test Report

Medium Zoom @ 5m

**UPRtek**  
United Power Research Technology Corporation

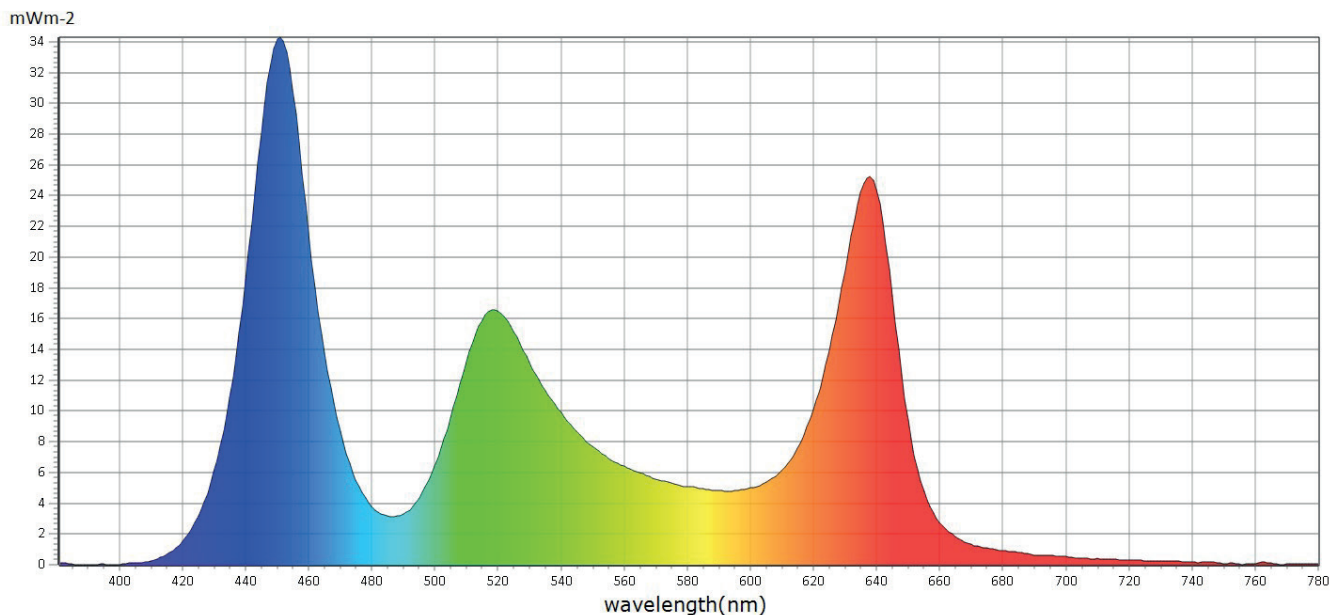
## ■ Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:07:01 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :<br>10000            |                        |

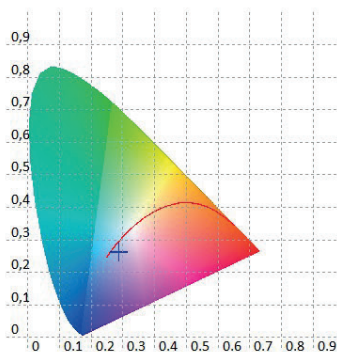
## ■ BASIC

|     |          |
|-----|----------|
| CRI | : 57,0   |
| x   | : 0,2872 |
| y   | : 0,2627 |
| CCT | : 11031  |
| LUX | : 642,6  |

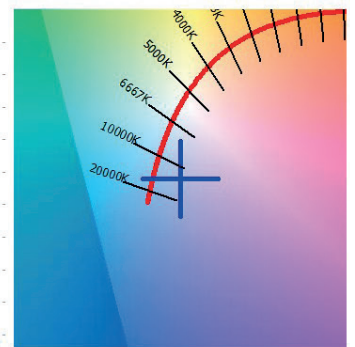
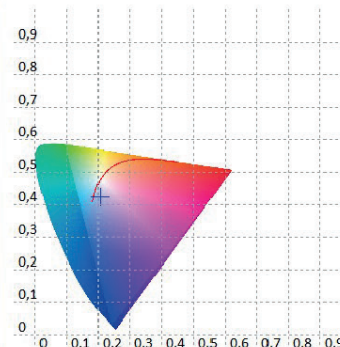
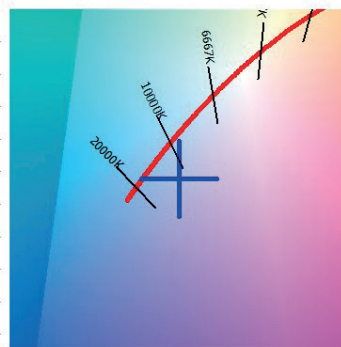
## ■ Spectrum



## ■ CIE1931



## ■ CIE1976



## Macro 10000K Test Report

Medium Zoom @ 5m

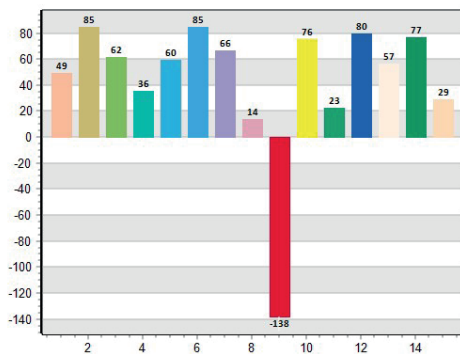
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:07:01 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :                     |                        |
| 10000                      |                        |

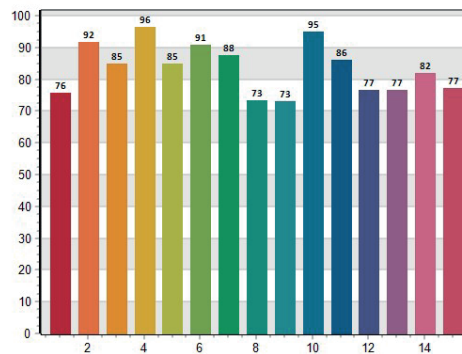
## BASIC

|     |          |
|-----|----------|
| CRI | : 57,0   |
| X   | : 0,2872 |
| Y   | : 0,2627 |
| CCT | : 11031  |
| LUX | : 642,6  |

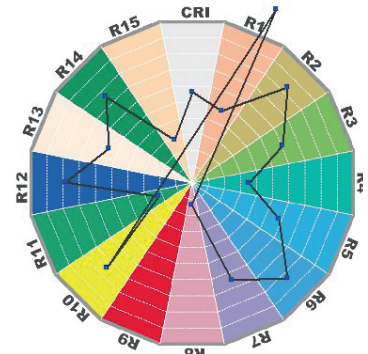
## CRI: 57,04



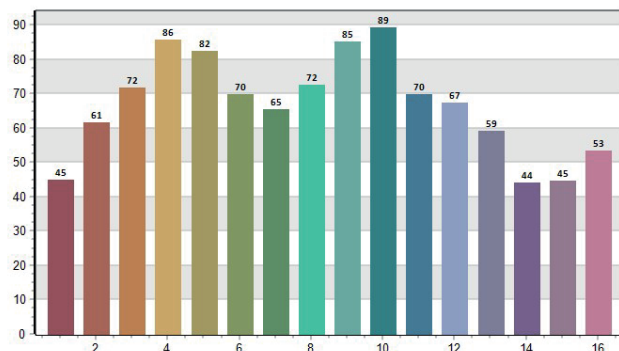
## CQS: 81,83



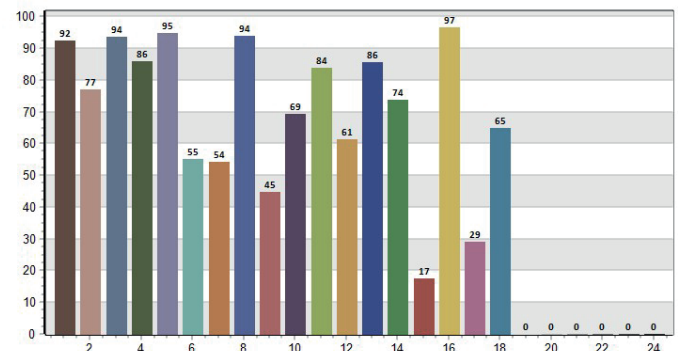
## CRI-2



## TM30: 72,68



## TLCI: 46,82



CRI values, only R1-R8 are used to calculate final CRI

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9     | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|
| 49,3 | 84,7 | 61,8 | 35,9 | 59,6 | 84,6 | 66,5 | 14,0 | -138,1 | 75,7 | 22,5 | 79,5 | 56,8 | 76,8 | 29,3 |

TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 45,0 | 61,5 | 71,8 | 85,7 | 82,4 | 69,7 | 65,3 | 72,4 | 85,2 | 89,3 | 69,7 | 67,3 | 59,0 | 44,0 | 44,7 | 53,5 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 75,9 | 91,8 | 84,9 | 96,5 | 84,9 | 90,7 | 87,7 | 73,3 | 73,0 | 95,1 | 86,1 | 76,7 | 76,7 | 82,0 | 77,1 |

## Macro 8000K Test Report

Medium Zoom @ 5m

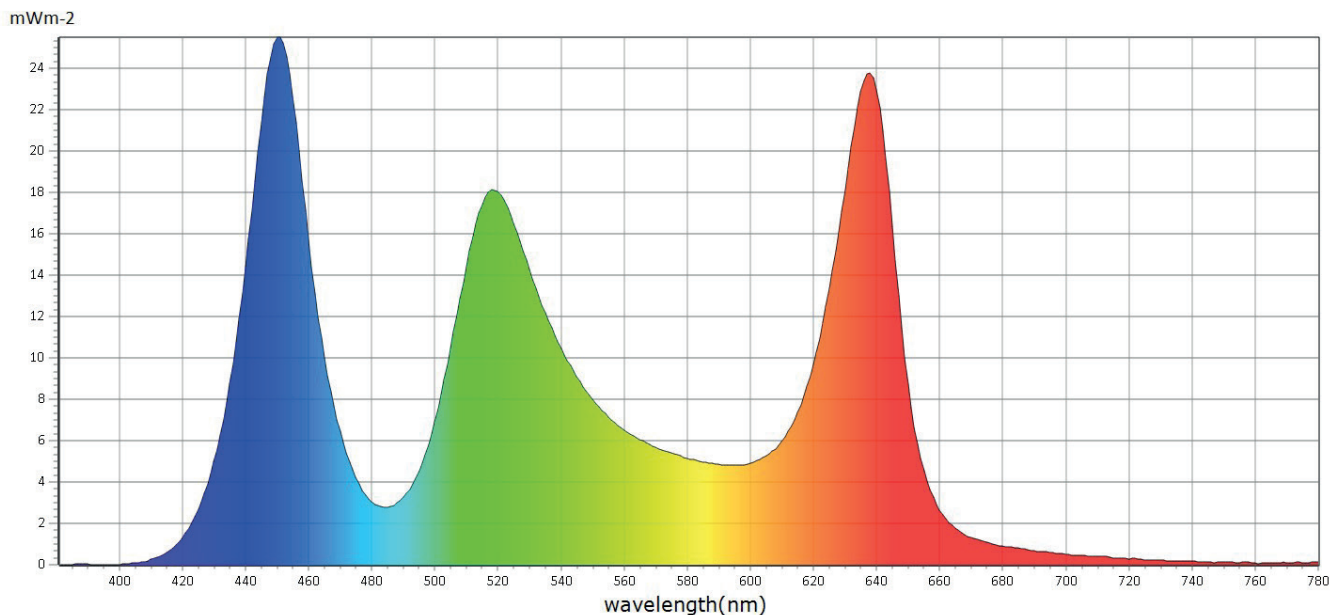
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:57 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :<br>8000             |                        |

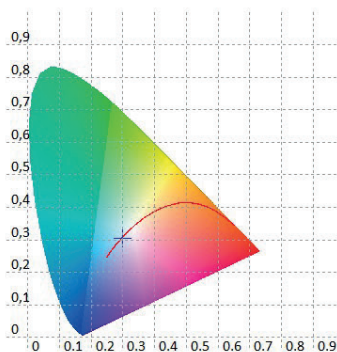
## BASIC

|     |          |
|-----|----------|
| CRI | : 67,4   |
| x   | : 0,3006 |
| y   | : 0,3053 |
| CCT | : 7576   |
| LUX | : 656,4  |

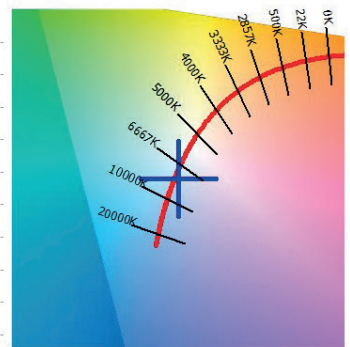
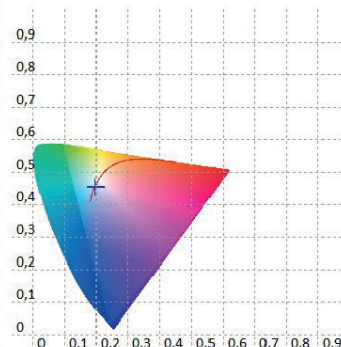
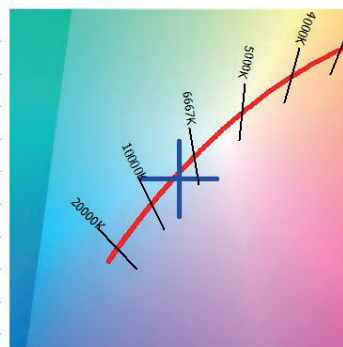
## Spectrum



## CIE1931



## CIE1976





## Macro 8000K Test Report

Medium Zoom @ 5m

UPRtek  
United Power Research Technology Corporation

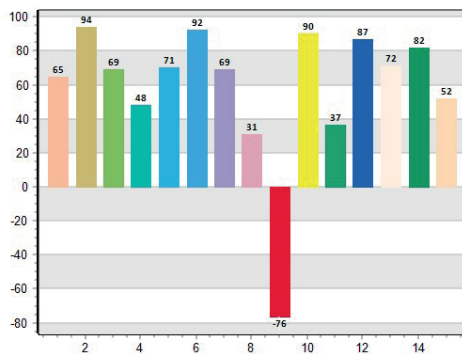
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:57 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :<br>8000             |                        |

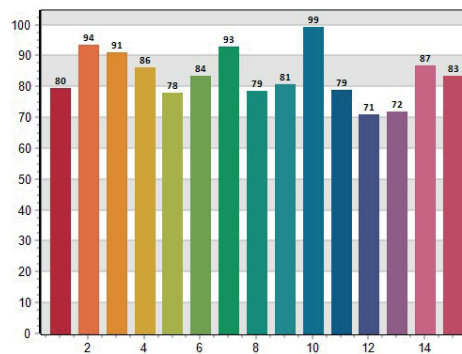
## BASIC

|     |          |
|-----|----------|
| CRI | : 67,4   |
| X   | : 0,3006 |
| Y   | : 0,3053 |
| CCT | : 7576   |
| LUX | : 656,4  |

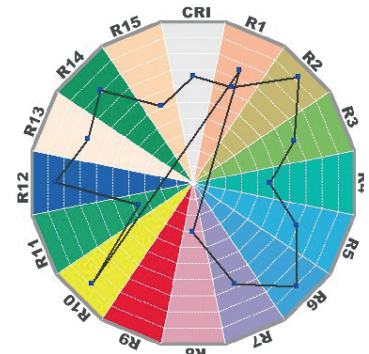
## CRI: 67,43



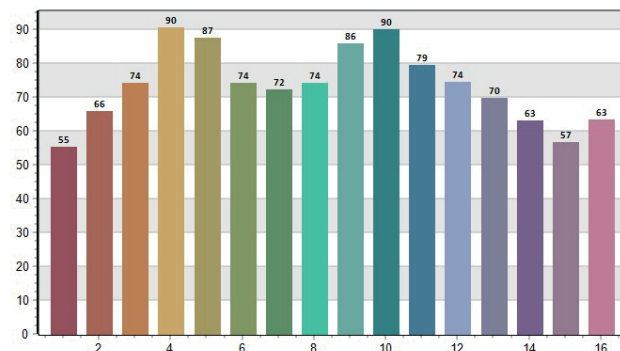
## CQS: 81,94



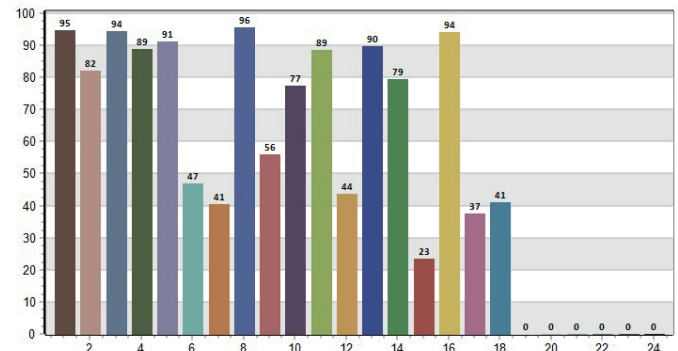
## CRI-2



## TM30: 77,84



## TLCI: 50,67



CRI values, only R1-R8 are used to calculate final CRI

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9    | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|
| 64,7 | 94,1 | 69,1 | 48,3 | 70,5 | 92,4 | 69,1 | 31,1 | -76,4 | 89,9 | 36,7 | 86,9 | 71,6 | 82,1 | 52,2 |

TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 55,3 | 65,9 | 74,0 | 90,4 | 87,4 | 74,2 | 72,1 | 74,0 | 85,6 | 90,0 | 79,4 | 74,3 | 69,5 | 62,8 | 56,6 | 63,2 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79,6 | 93,6 | 91,2 | 86,2 | 78,0 | 83,6 | 92,7 | 78,6 | 80,8 | 99,3 | 78,8 | 71,0 | 71,9 | 86,8 | 83,5 |

## Macro 6500K Test Report

Medium Zoom @ 5m

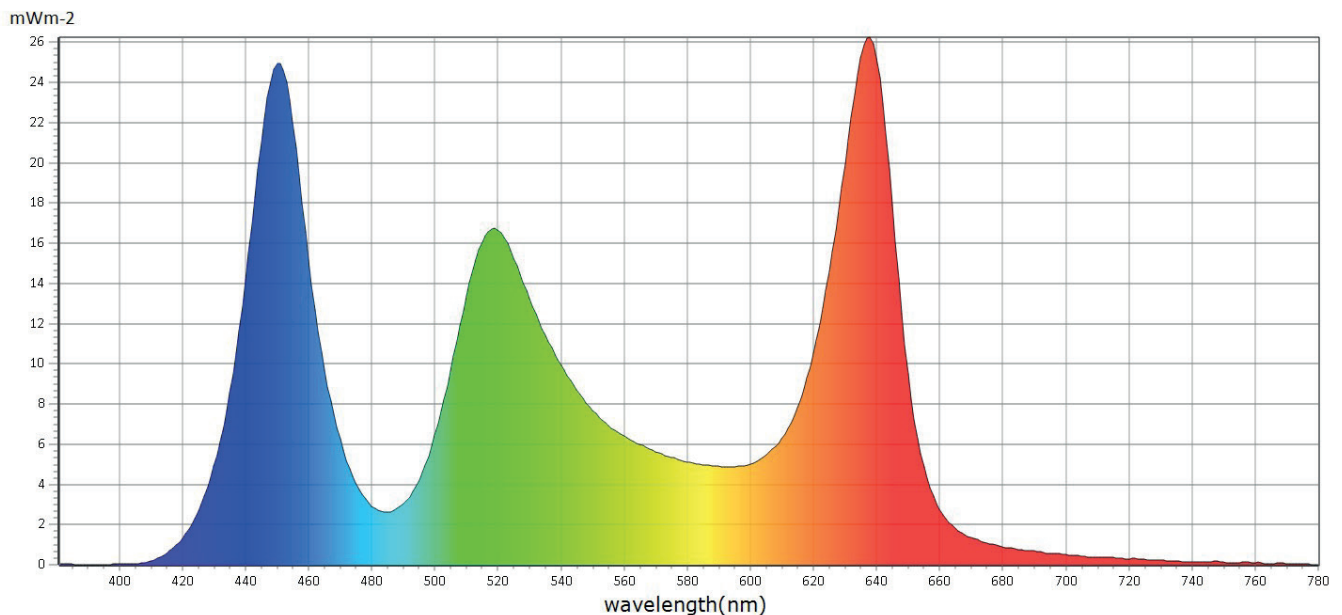
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:53 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :<br>6500             |                        |

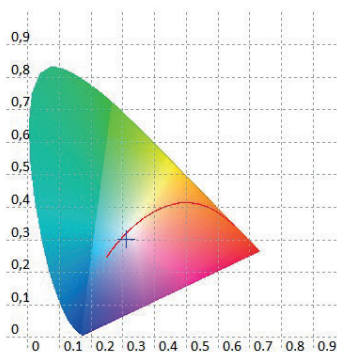
## BASIC

|     |          |
|-----|----------|
| CRI | : 60,2   |
| x   | : 0,3115 |
| y   | : 0,3016 |
| CCT | : 6854   |
| LUX | : 642,2  |

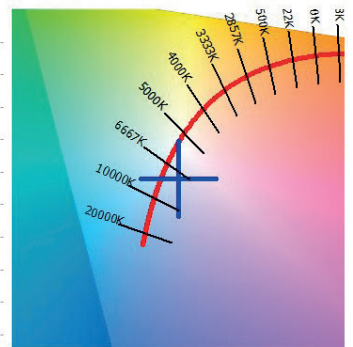
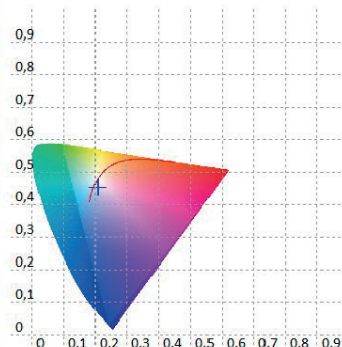
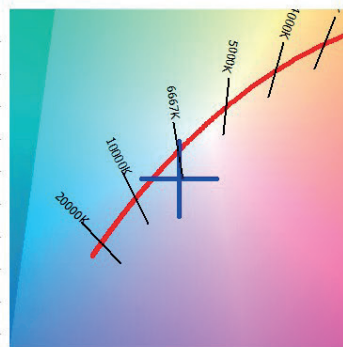
## Spectrum



## CIE1931



## CIE1976



## Macro 6500K Test Report

Medium Zoom @ 5m

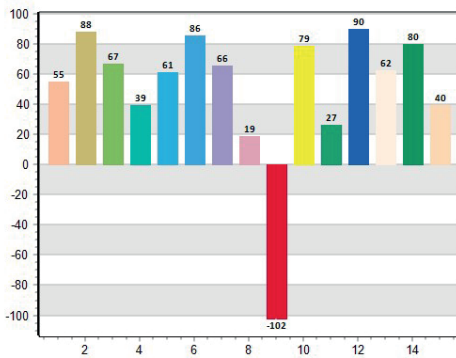
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:53 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :<br>6500             |                        |

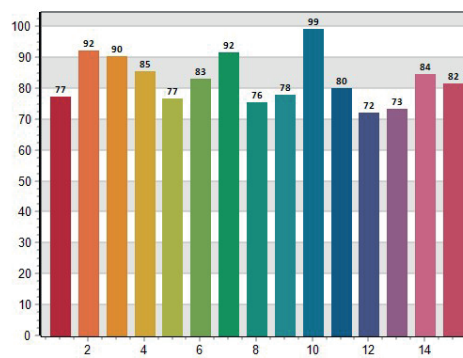
## BASIC

|     |          |
|-----|----------|
| CRI | : 60,2   |
| X   | : 0,3115 |
| Y   | : 0,3016 |
| CCT | : 6854   |
| LUX | : 642,2  |

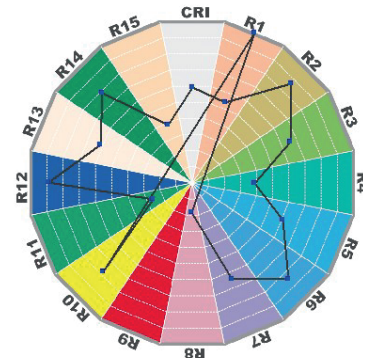
## CRI: 60,21



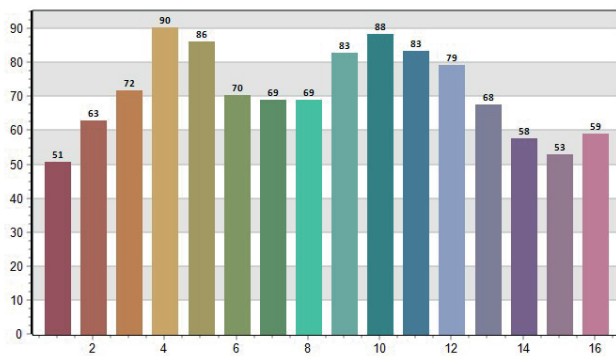
## CQS: 81,12



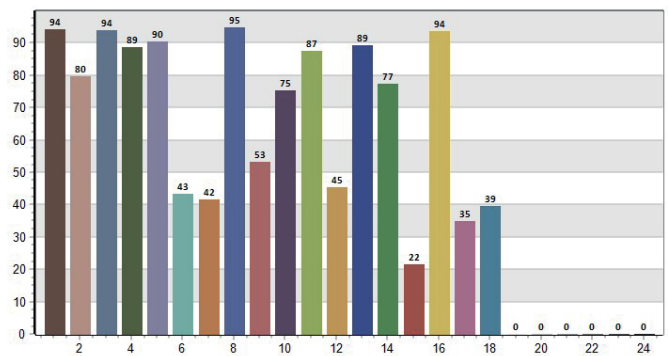
## CRI-2



## TM30: 75,56



## TLCI: 48,75



CRI values, only R1-R8 are used to calculate final CRI

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9     | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|
| 54,9 | 88,0 | 67,2 | 39,3 | 61,5 | 85,9 | 66,0 | 18,8 | -102,2 | 78,9 | 26,6 | 90,0 | 62,3 | 80,1 | 39,6 |

TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 50,8 | 62,9 | 71,7 | 90,3 | 86,2 | 70,4 | 69,1 | 69,0 | 82,8 | 88,3 | 83,4 | 79,3 | 67,7 | 57,7 | 53,0 | 59,0 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 77,3 | 92,1 | 90,3 | 85,3 | 76,8 | 83,0 | 91,6 | 75,5 | 77,8 | 99,1 | 80,1 | 72,1 | 73,3 | 84,5 | 81,5 |



## Macro 5600K Test Report

Medium Zoom @ 5m

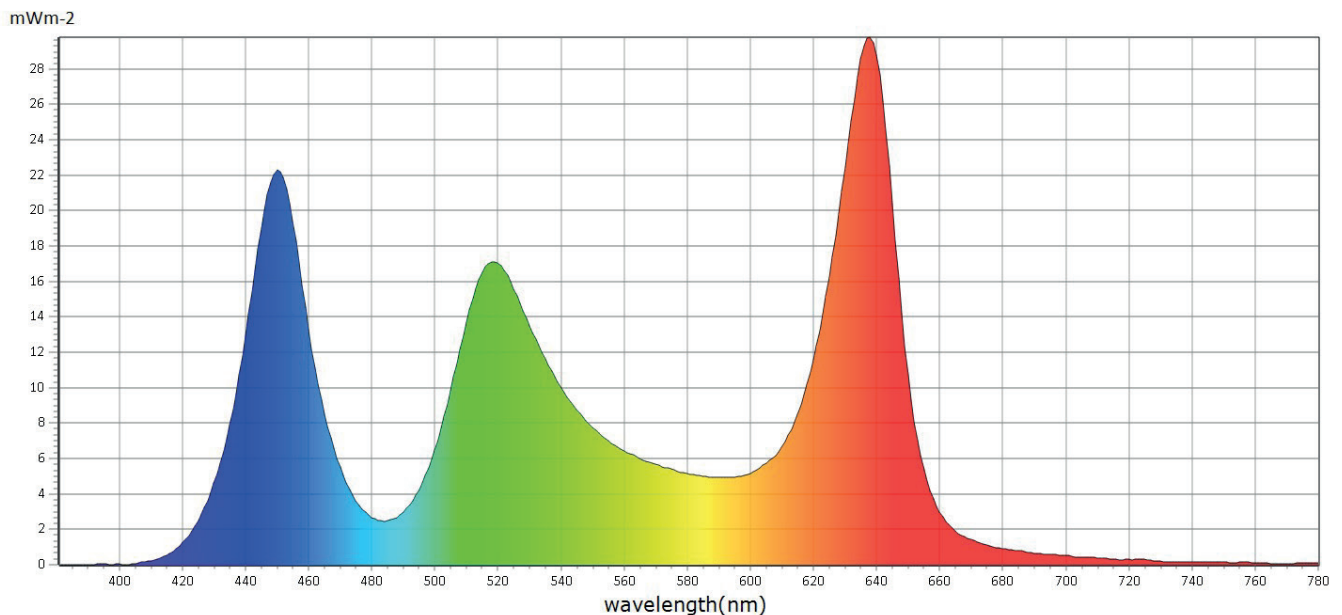
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:49 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :<br>5600             |                        |

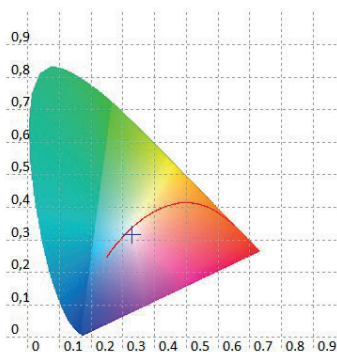
## BASIC

|     |          |
|-----|----------|
| CRI | : 56,8   |
| x   | : 0,3278 |
| y   | : 0,3162 |
| CCT | : 5742   |
| LUX | : 661,1  |

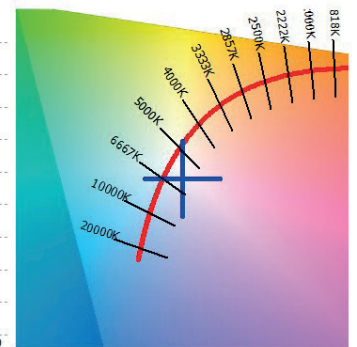
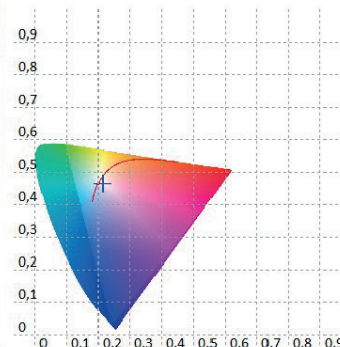
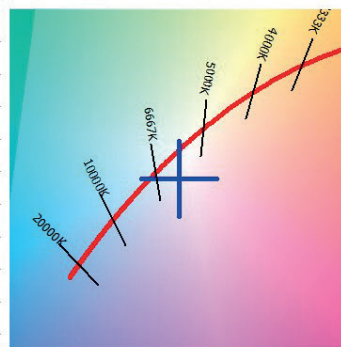
## Spectrum



## CIE1931



## CIE1976



## Macro 5600K Test Report

Medium Zoom @ 5m

**UPRtek**  
 United Power Research Technology Corporation

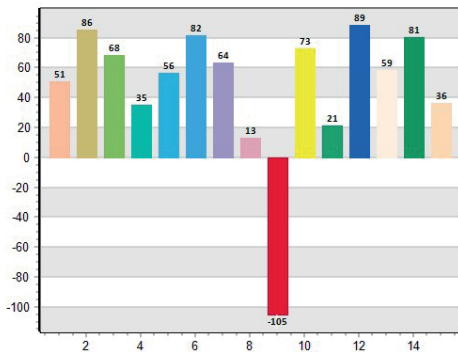
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:49 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :                     |                        |
| 5600                       |                        |

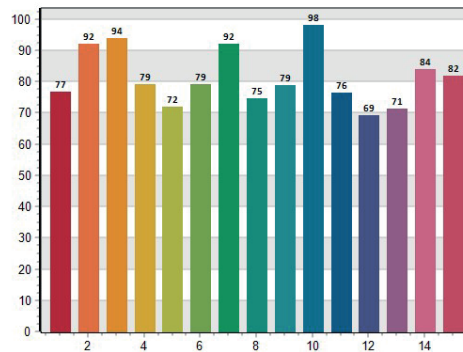
## BASIC

|     |          |
|-----|----------|
| CRI | : 56,8   |
| X   | : 0,3278 |
| Y   | : 0,3162 |
| CCT | : 5742   |
| LUX | : 661,1  |

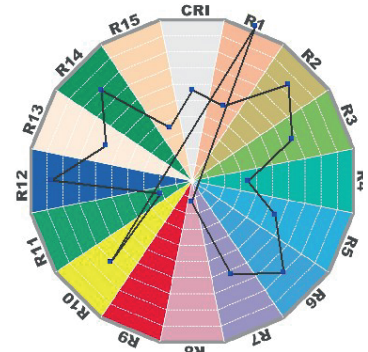
## CRI: 56,85



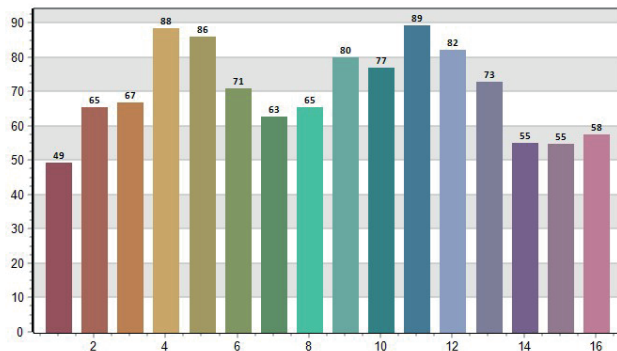
## CQS: 79,36



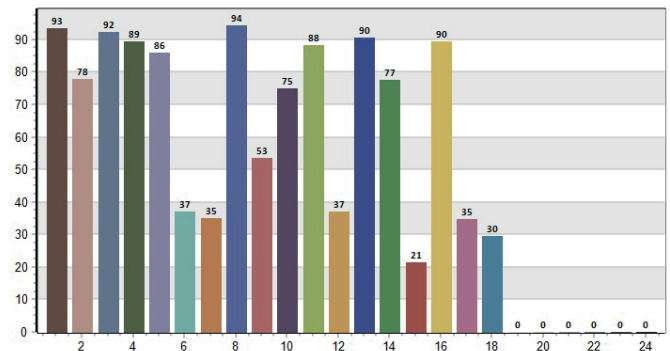
## CRI-2



## TM30: 74,48



## TLCI: 45,08



CRI values, only R1-R8 are used to calculate final CRI

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9     | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|
| 51,1 | 85,6 | 68,5 | 34,9 | 56,5 | 81,5 | 63,7 | 13,1 | -105,1 | 72,7 | 21,3 | 88,6 | 58,5 | 80,6 | 36,2 |

TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 49,2 | 65,3 | 66,8 | 88,5 | 85,9 | 70,8 | 62,7 | 65,5 | 79,9 | 77,0 | 89,2 | 82,0 | 72,7 | 54,9 | 54,6 | 57,6 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 76,7 | 92,0 | 93,8 | 79,0 | 71,9 | 79,1 | 92,1 | 74,6 | 78,8 | 98,1 | 76,4 | 69,2 | 71,3 | 83,9 | 81,9 |

## Macro 5000K Test Report

Medium Zoom @ 5m

**UPRtek**  
United Power Research Technology Corporation

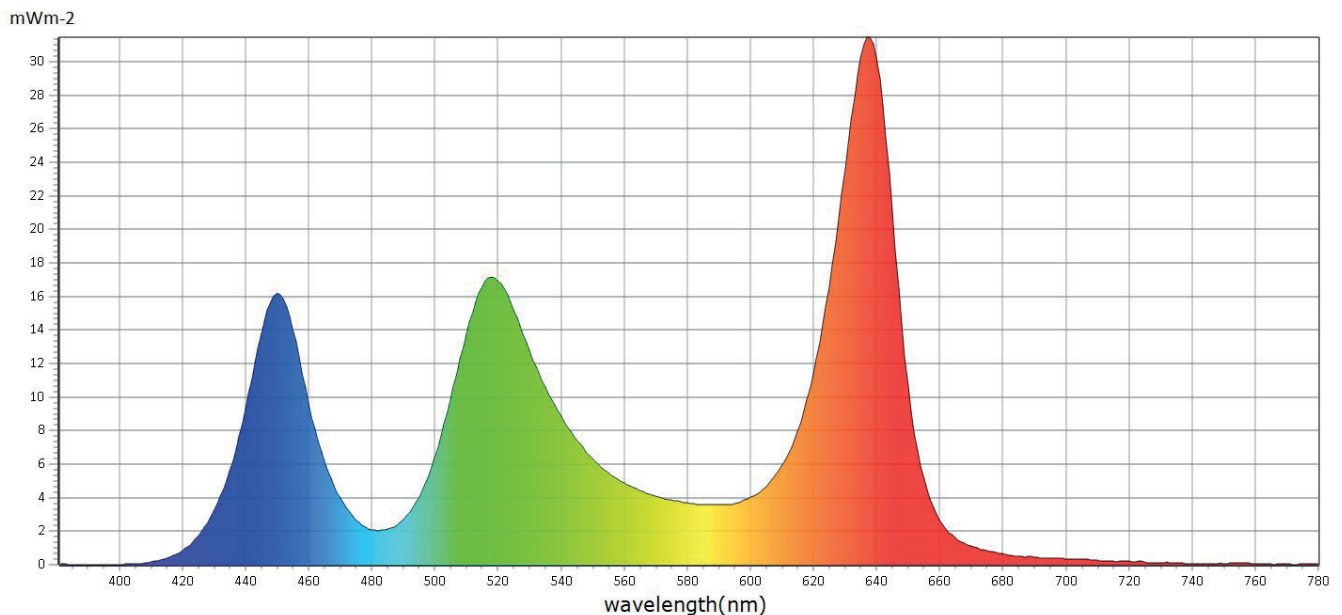
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:45 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :<br>5000             |                        |

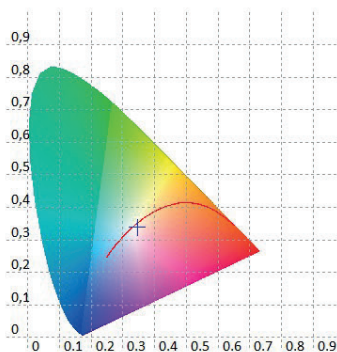
## BASIC

|     |          |
|-----|----------|
| CRI | : 48,8   |
| x   | : 0,3453 |
| y   | : 0,3387 |
| CCT | : 4941   |
| LUX | : 592,4  |

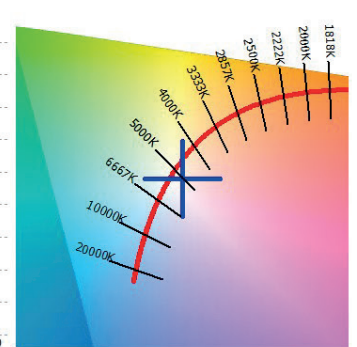
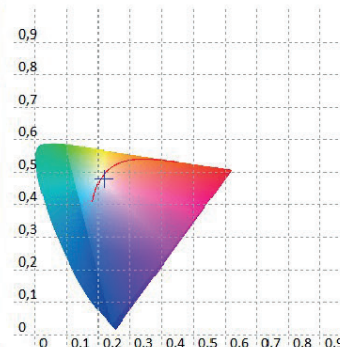
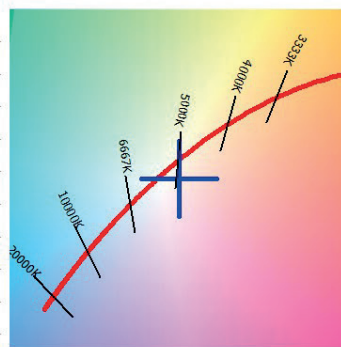
## Spectrum



## CIE1931



## CIE1976



## Macro 5000K Test Report

Medium Zoom @ 5m

**UPRtek**  
 United Power Research Technology Corporation

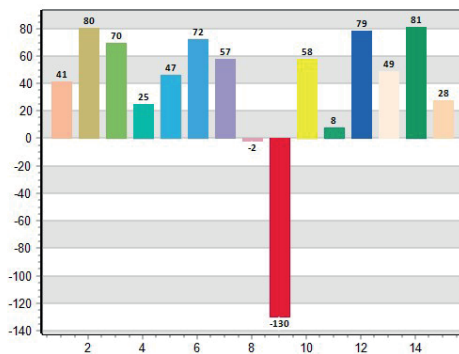
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:45 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :<br>5000             |                        |

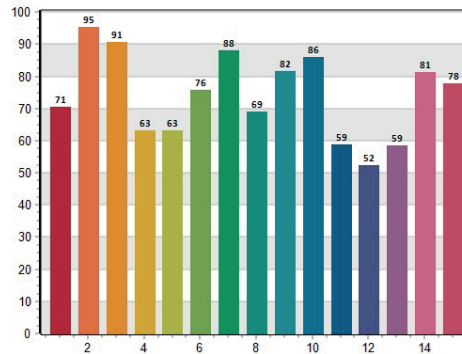
## BASIC

|     |          |
|-----|----------|
| CRI | : 48,8   |
| X   | : 0,3453 |
| Y   | : 0,3387 |
| CCT | : 4941   |
| LUX | : 592,4  |

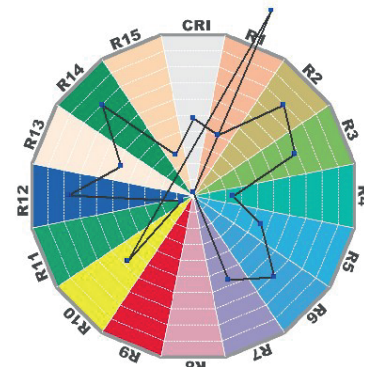
## CRI: 48,80



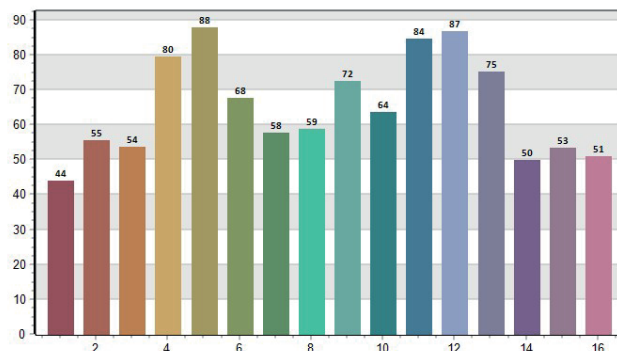
## CQS: 71,21



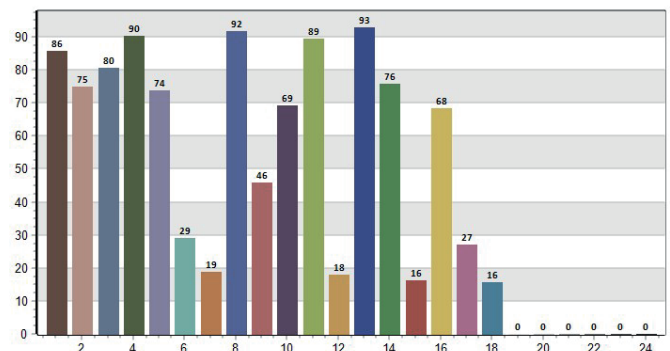
## CRI-2



## TM30: 69,86



## TLCI: 31,01



CRI values, only R1-R8 are used to calculate final CRI

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9     | R10  | R11 | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|--------|------|-----|------|------|------|------|
| 41,2 | 80,4 | 69,6 | 24,9 | 46,5 | 72,4 | 57,5 | -2,1 | -129,8 | 57,9 | 7,8 | 78,5 | 49,1 | 81,1 | 27,9 |

TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 43,8 | 55,4 | 53,5 | 79,5 | 87,8 | 67,5 | 57,6 | 58,8 | 72,4 | 63,6 | 84,5 | 86,6 | 75,2 | 49,8 | 53,3 | 50,9 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 70,5 | 95,4 | 90,6 | 63,2 | 63,3 | 75,8 | 88,2 | 69,2 | 81,7 | 85,9 | 58,8 | 52,2 | 58,6 | 81,4 | 77,8 |



## Macro 4500K Test Report

Medium Zoom @ 5m

**UPRtek**  
United Power Research Technology Corporation

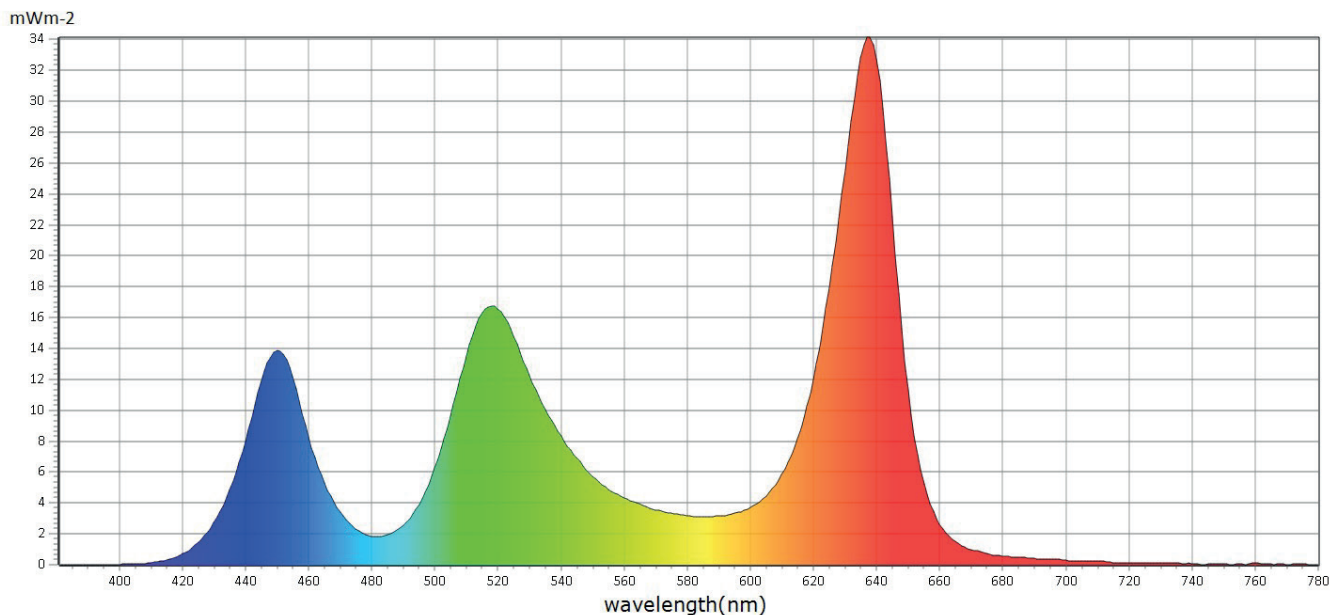
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:41 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :<br>4500             |                        |

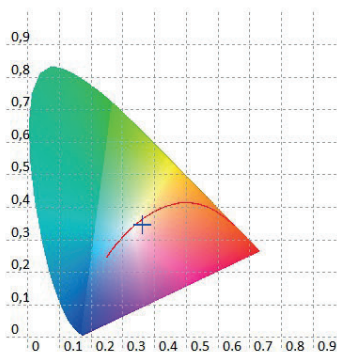
## BASIC

|     |          |
|-----|----------|
| CRI | : 41,3   |
| x   | : 0,3614 |
| y   | : 0,3470 |
| CCT | : 4372   |
| LUX | : 572,1  |

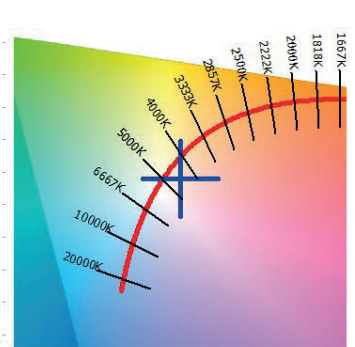
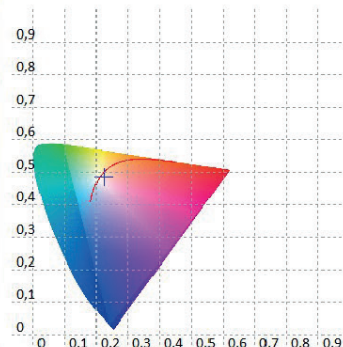
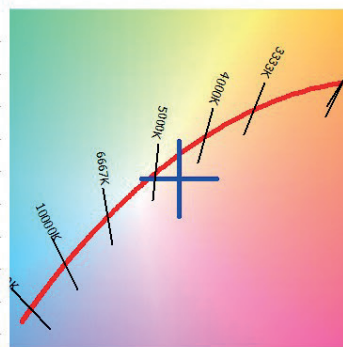
## Spectrum



## CIE1931



## CIE1976



## Macro 4500K Test Report

Medium Zoom @ 5m

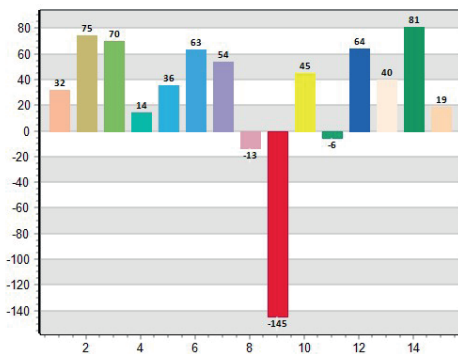
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:41 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :                     |                        |
| 4500                       |                        |

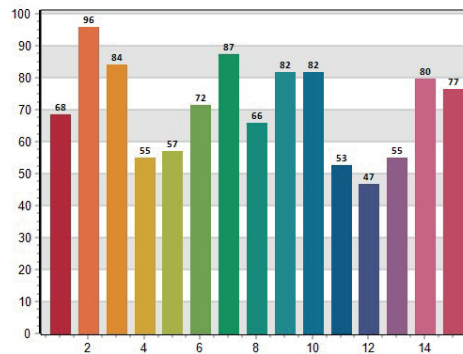
## BASIC

|     |          |
|-----|----------|
| CRI | : 41,3   |
| X   | : 0,3614 |
| Y   | : 0,3470 |
| CCT | : 4372   |
| LUX | : 572,1  |

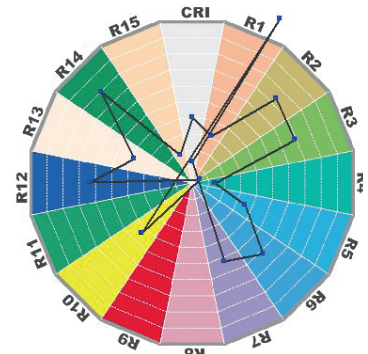
## CRI: 41,25



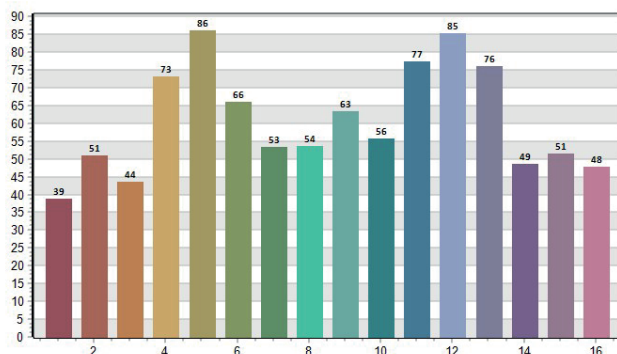
## CQS: 67,30



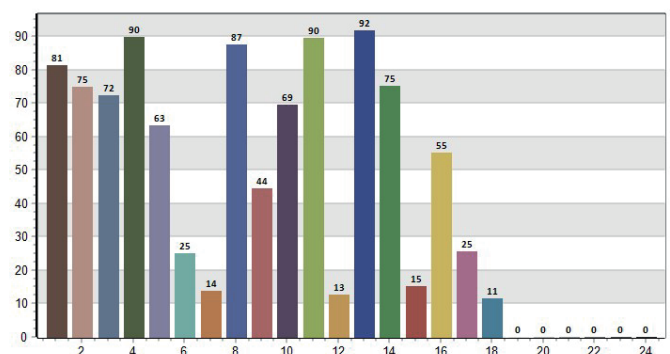
## CRI-2



## TM30: 66,01



## TLCI: 25,33



CRI values, only R1-R8 are used to calculate final CRI

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8    | R9     | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|-------|--------|------|------|------|------|------|------|
| 31,7 | 74,6 | 70,1 | 14,3 | 35,9 | 63,3 | 53,6 | -13,4 | -144,7 | 44,8 | -5,7 | 64,1 | 39,7 | 81,0 | 19,0 |

TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 38,8 | 51,1 | 43,6 | 73,1 | 86,1 | 66,1 | 53,3 | 53,5 | 63,3 | 55,7 | 77,3 | 85,4 | 76,0 | 48,6 | 51,5 | 47,8 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 68,4 | 95,8 | 84,1 | 54,9 | 57,0 | 71,5 | 87,2 | 65,9 | 81,8 | 81,7 | 52,6 | 46,8 | 55,0 | 79,5 | 76,5 |



## Macro 4000K Test Report

Medium Zoom @ 5m

**UPRtek**  
United Power Research Technology Corporation

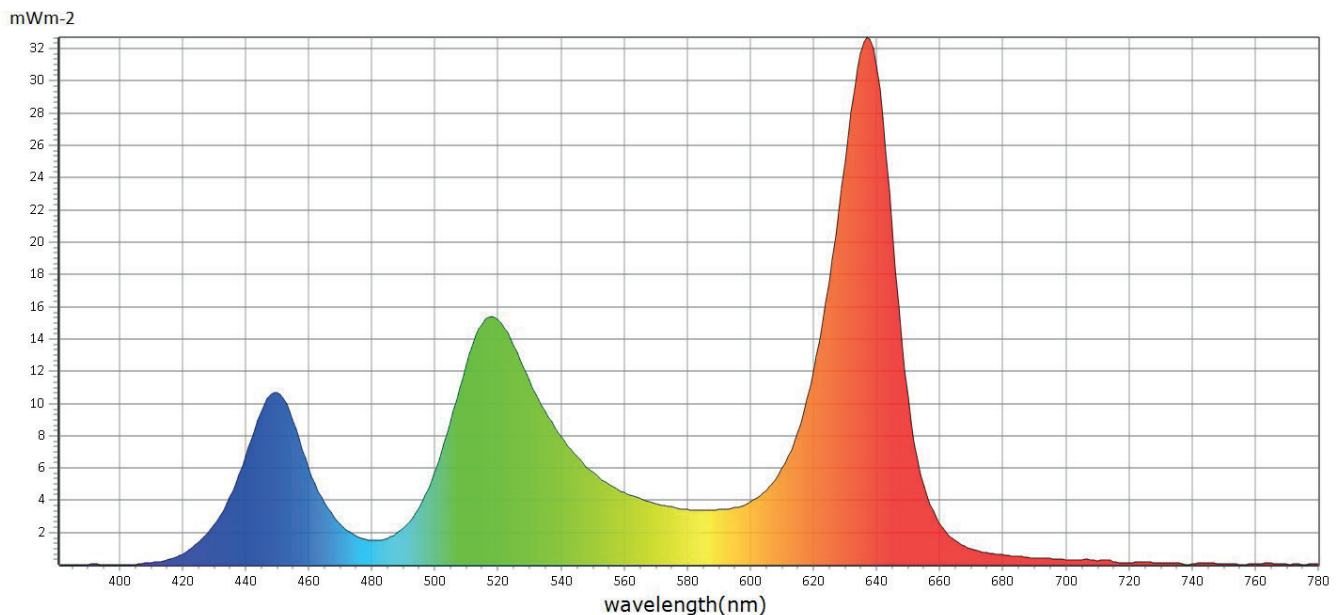
## ■ Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:38 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :<br>4000             |                        |

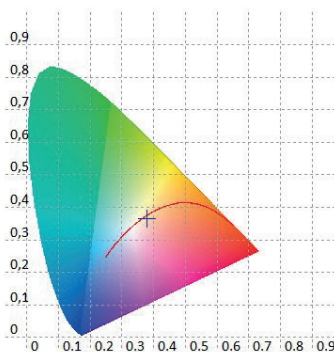
## ■ BASIC

|     |          |
|-----|----------|
| CRI | : 45,9   |
| x   | : 0,3797 |
| y   | : 0,3665 |
| CCT | : 3942   |
| LUX | : 552,8  |

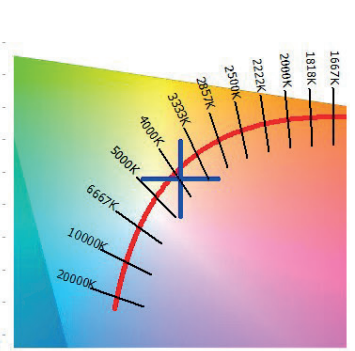
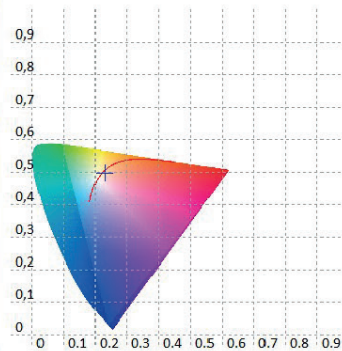
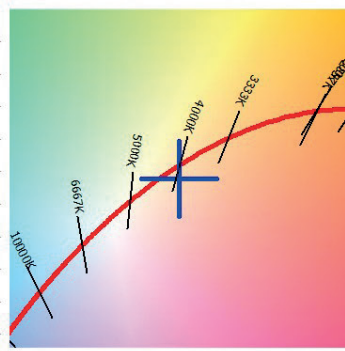
## ■ Spectrum



## ■ CIE1931



## ■ CIE1976



## Macro 4000K Test Report

Medium Zoom @ 5m

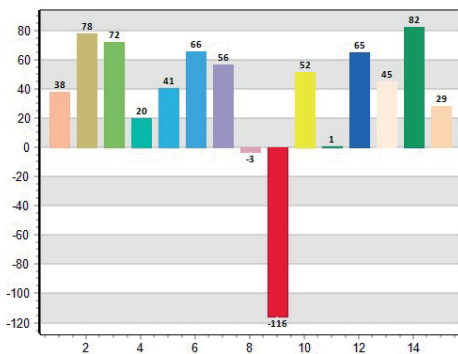
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:38 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :                     |                        |
| 4000                       |                        |

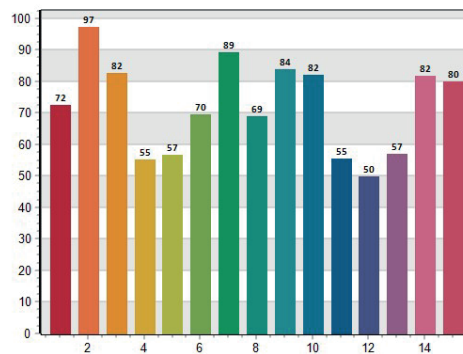
## BASIC

|     |          |
|-----|----------|
| CRI | : 45,9   |
| X   | : 0,3797 |
| Y   | : 0,3665 |
| CCT | : 3942   |
| LUX | : 552,8  |

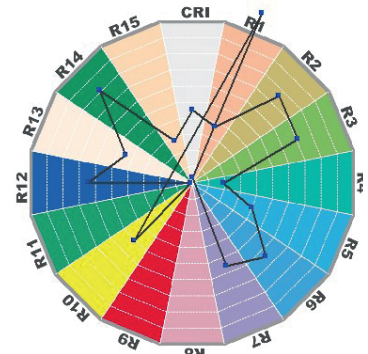
## CRI: 45,91



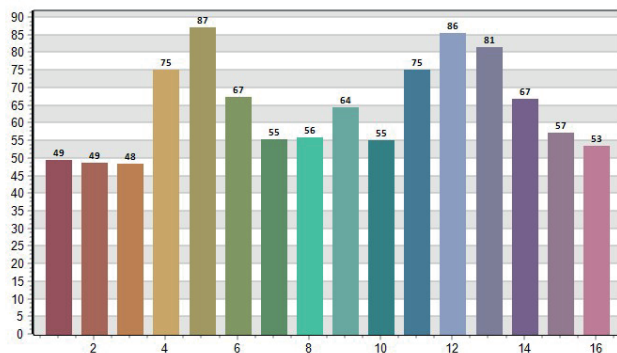
## CQS: 68,72



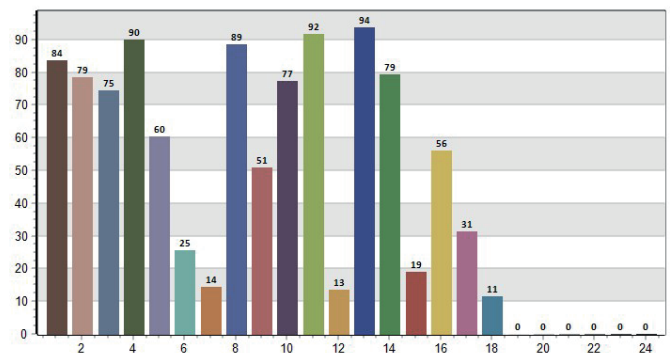
## CRI-2



## TM30: 68,22



## TLCI: 26,78



CRI values, only R1-R8 are used to calculate final CRI

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9     | R10  | R11 | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|--------|------|-----|------|------|------|------|
| 37,9 | 77,8 | 72,0 | 20,0 | 40,6 | 65,9 | 56,5 | -3,4 | -115,8 | 51,7 | 0,9 | 65,3 | 45,4 | 82,5 | 28,6 |

TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 49,4 | 48,6 | 48,3 | 75,0 | 87,1 | 67,3 | 55,4 | 55,9 | 64,3 | 55,1 | 74,9 | 85,6 | 81,5 | 66,8 | 57,2 | 53,5 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 72,4 | 97,2 | 82,4 | 55,1 | 56,6 | 69,6 | 89,2 | 68,8 | 83,9 | 82,1 | 55,5 | 49,8 | 57,1 | 81,6 | 79,8 |

## Macro 3200K Test Report

Medium Zoom @ 5m

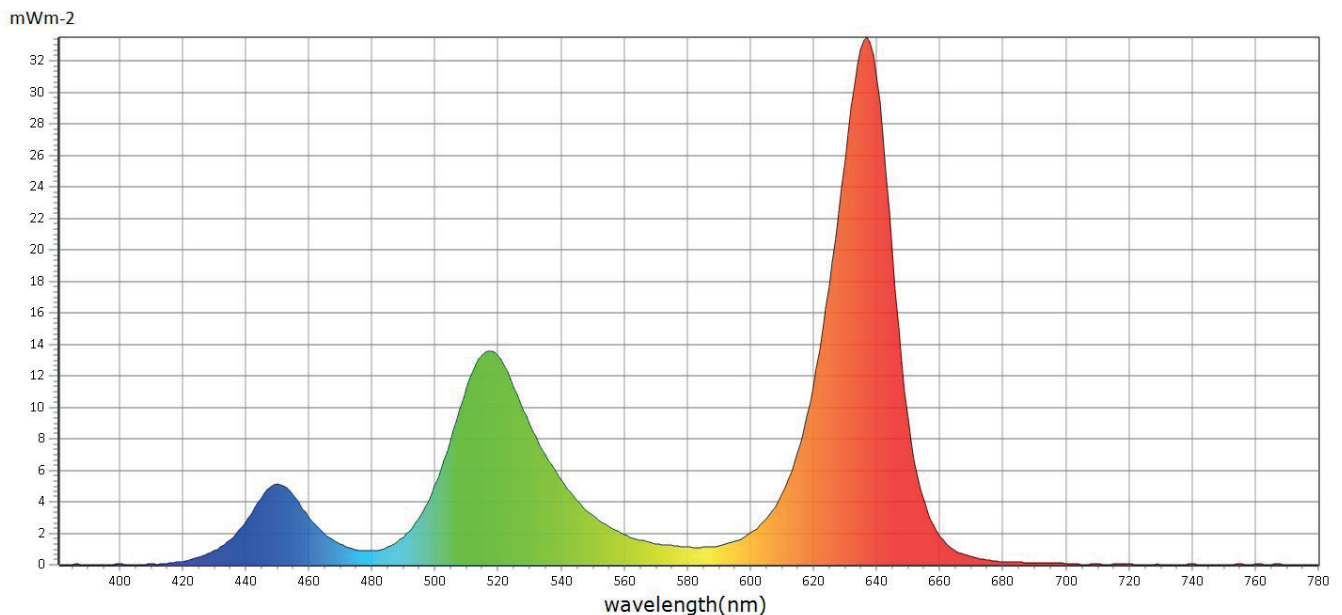
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:35 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :<br>3200             |                        |

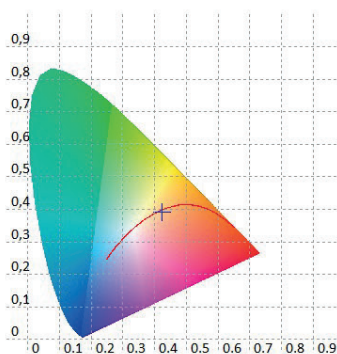
## BASIC

|     |          |
|-----|----------|
| CRI | : 18,5   |
| x   | : 0,4227 |
| y   | : 0,3909 |
| CCT | : 3144   |
| LUX | : 410,7  |

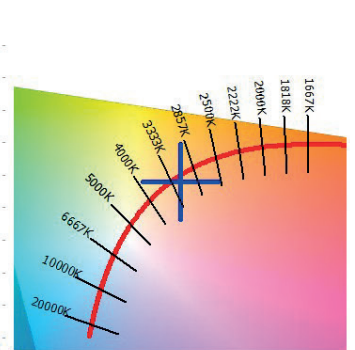
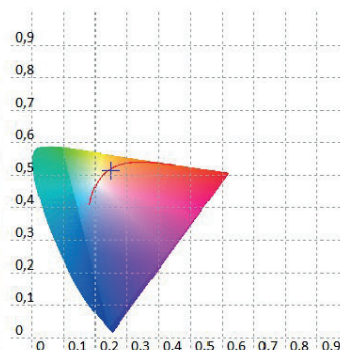
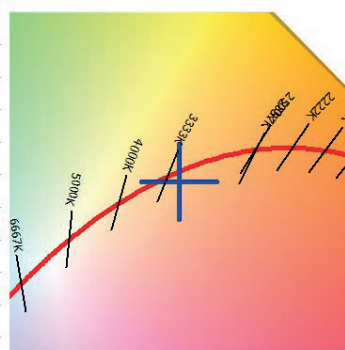
## Spectrum



## CIE1931



## CIE1976



## Macro 3200K Test Report

Medium Zoom @ 5m

**UPRtek**  
 United Power Research Technology Corporation

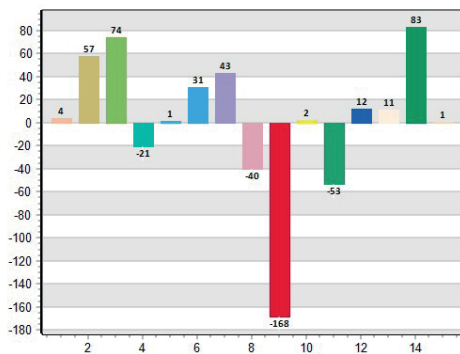
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:35 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :                     |                        |
| 3200                       |                        |

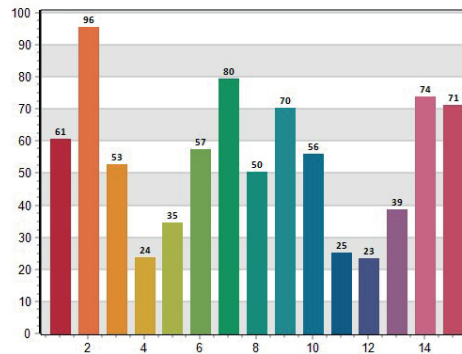
## BASIC

|     |          |
|-----|----------|
| CRI | : 18,5   |
| X   | : 0,4227 |
| Y   | : 0,3909 |
| CCT | : 3144   |
| LUX | : 410,7  |

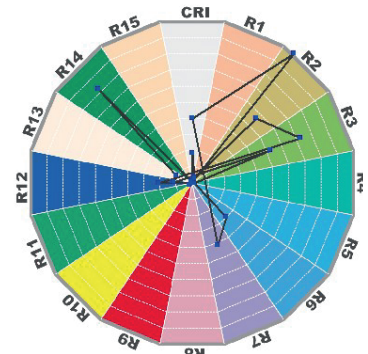
## CRI: 18,53



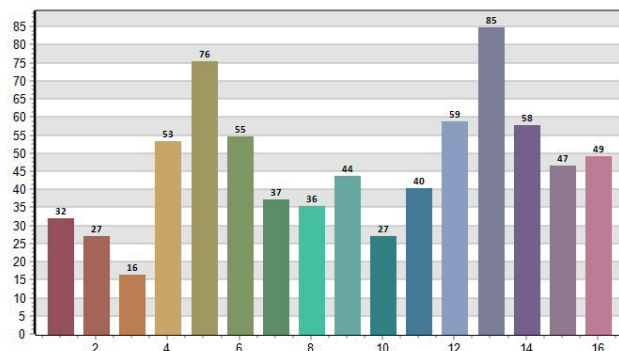
## CQS: 49,18



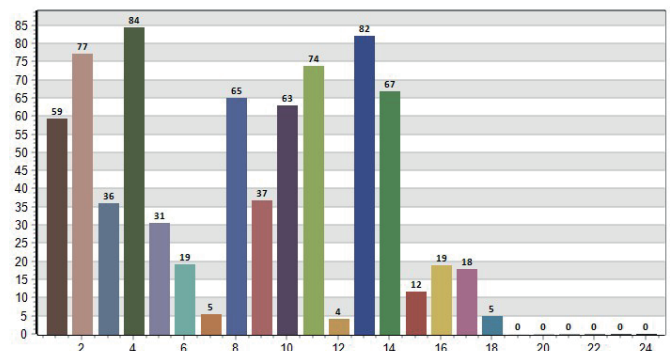
## CRI-2



## TM30: 51,20



## TLCI: 11,71



CRI values, only R1-R8 are used to calculate final CRI

| R1  | R2   | R3   | R4    | R5  | R6   | R7   | R8    | R9     | R10 | R11   | R12  | R13  | R14  | R15 |
|-----|------|------|-------|-----|------|------|-------|--------|-----|-------|------|------|------|-----|
| 3,6 | 57,3 | 73,7 | -21,0 | 1,4 | 30,7 | 42,8 | -40,3 | -168,3 | 2,4 | -53,2 | 11,6 | 10,8 | 82,9 | 0,8 |

TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 32,1 | 27,0 | 16,4 | 53,3 | 75,5 | 54,6 | 37,1 | 35,5 | 43,6 | 27,0 | 40,4 | 58,8 | 84,8 | 57,7 | 46,6 | 49,3 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 60,7 | 95,6 | 52,7 | 23,6 | 34,7 | 57,4 | 79,6 | 50,4 | 70,3 | 56,0 | 25,2 | 23,4 | 38,7 | 73,8 | 71,2 |



## Macro 3000K Test Report

Medium Zoom @ 5m

**UPRtek**  
United Power Research Technology Corporation

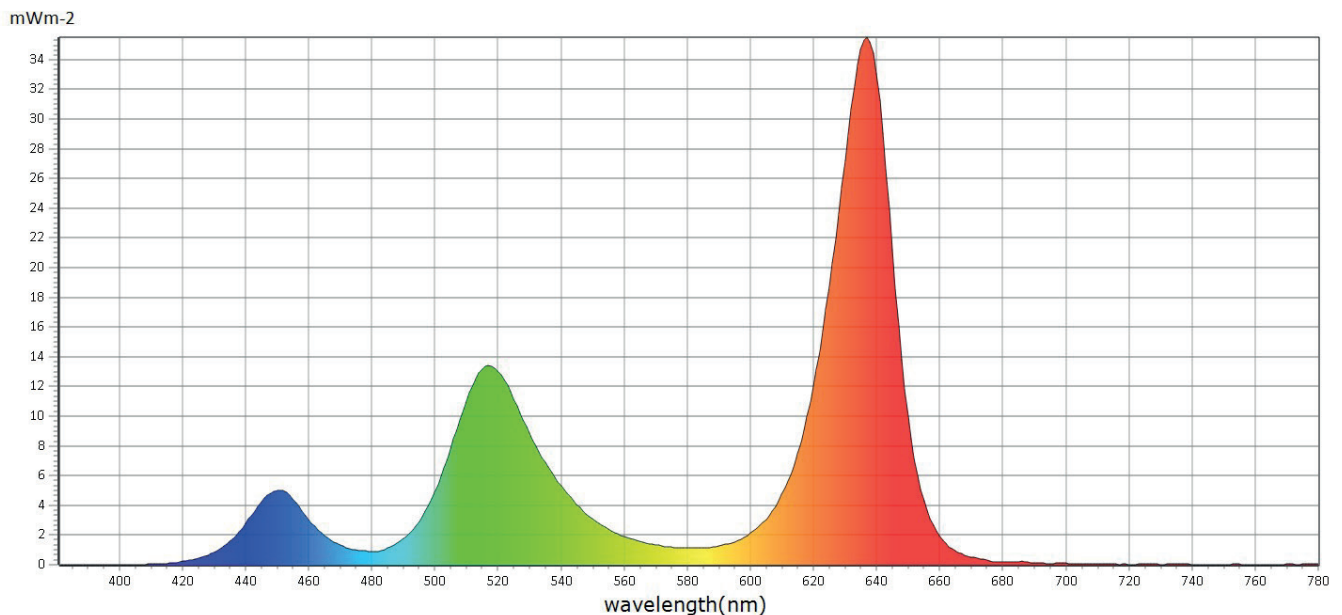
## ■ Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:30 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :<br>3000             |                        |

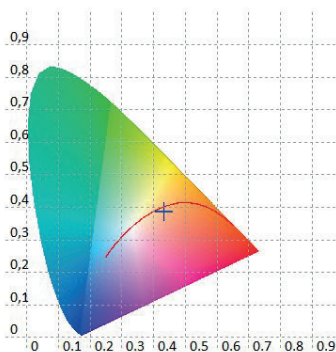
## ■ BASIC

|     |          |
|-----|----------|
| CRI | : 16,4   |
| x   | : 0,4317 |
| y   | : 0,3871 |
| CCT | : 2947   |
| LUX | : 416,3  |

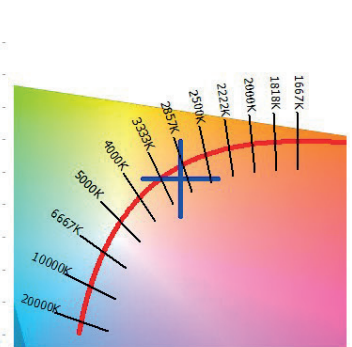
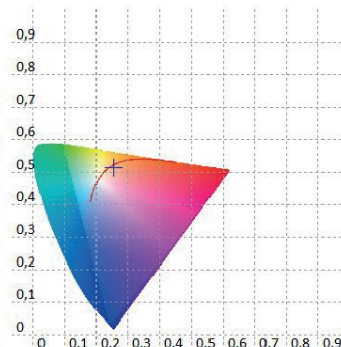
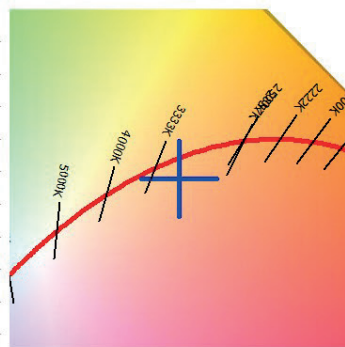
## ■ Spectrum



## ■ CIE1931



## ■ CIE1976





## Macro 3000K Test Report

Medium Zoom @ 5m

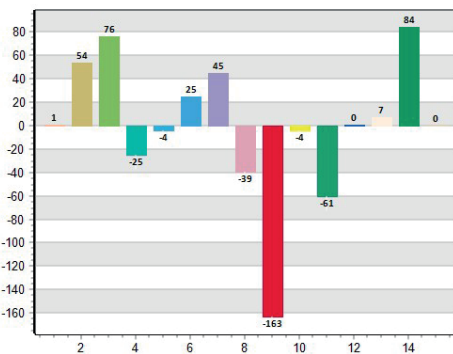
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:30 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :                     |                        |
| 3000                       |                        |

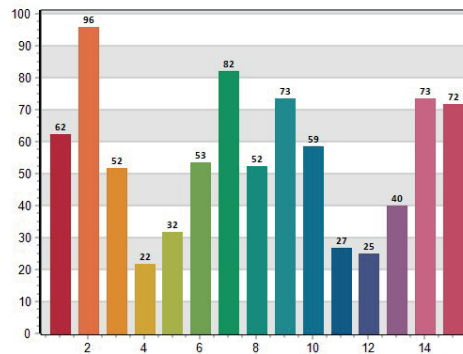
## BASIC

|     |          |
|-----|----------|
| CRI | : 16,4   |
| X   | : 0,4317 |
| Y   | : 0,3871 |
| CCT | : 2947   |
| LUX | : 416,3  |

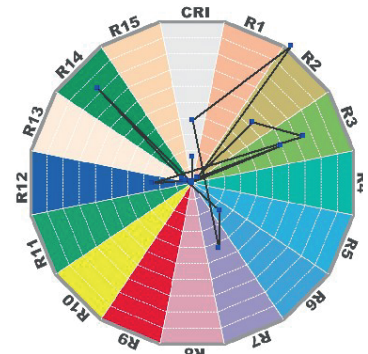
## CRI: 16,40



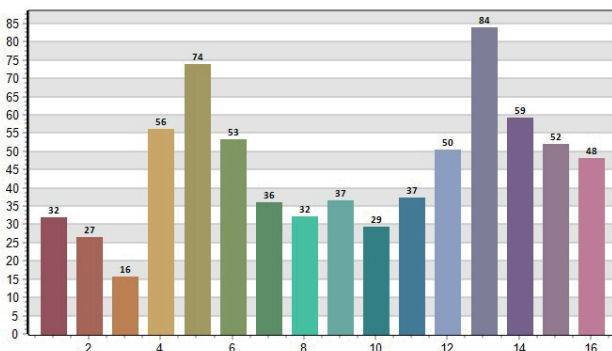
## CQS: 49,31



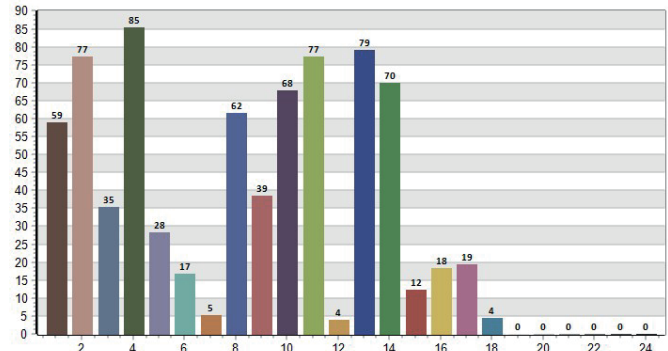
## CRI-2



## TM30: 50,11



## TLCI: 11,15



CRI values, only R1-R8 are used to calculate final CRI

| R1  | R2   | R3   | R4    | R5   | R6   | R7   | R8    | R9     | R10  | R11   | R12 | R13 | R14  | R15  |
|-----|------|------|-------|------|------|------|-------|--------|------|-------|-----|-----|------|------|
| 0,7 | 54,0 | 76,1 | -25,4 | -3,9 | 24,5 | 44,6 | -39,5 | -163,0 | -4,4 | -60,6 | 0,3 | 6,8 | 84,1 | -0,2 |

TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 31,9 | 26,6 | 15,8 | 56,1 | 73,8 | 53,3 | 35,9 | 32,2 | 36,5 | 29,5 | 37,3 | 50,4 | 83,9 | 59,3 | 52,0 | 48,1 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 62,2 | 95,8 | 51,8 | 21,7 | 31,8 | 53,4 | 82,1 | 52,3 | 73,4 | 58,5 | 26,7 | 24,9 | 39,8 | 73,3 | 71,6 |

## Macro 2700K Test Report

Medium Zoom @ 5m

**UPRtek**  
United Power Research Technology Corporation

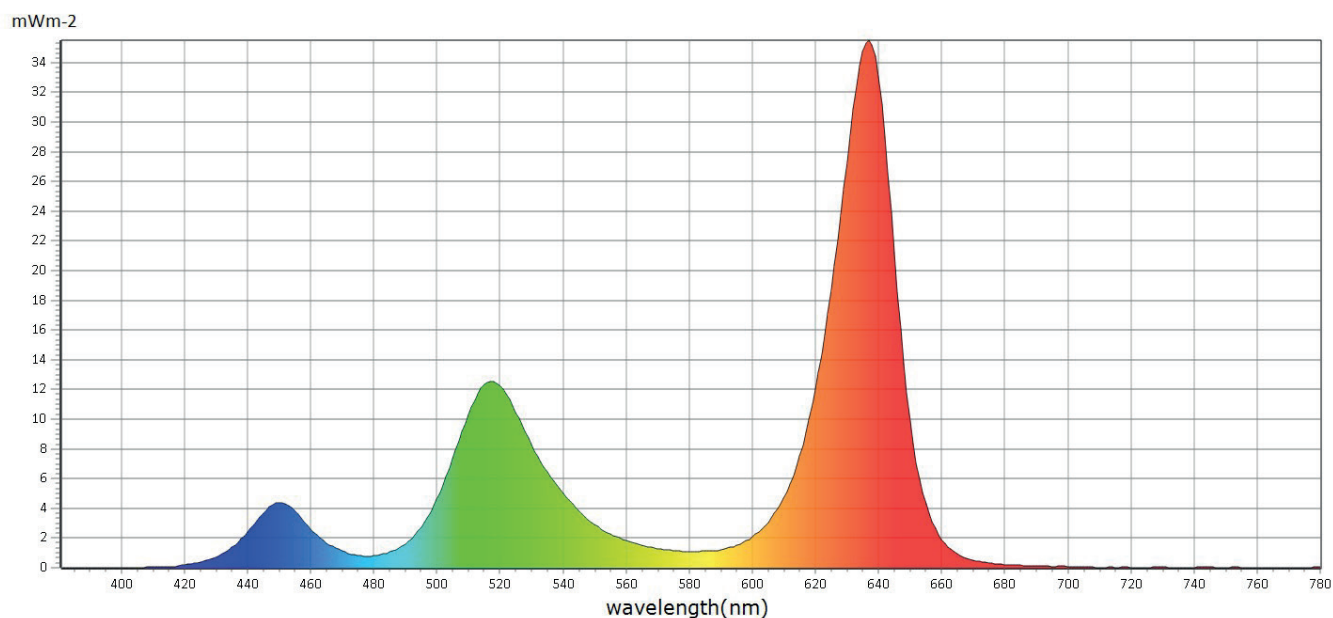
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:24 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :<br>2700             |                        |

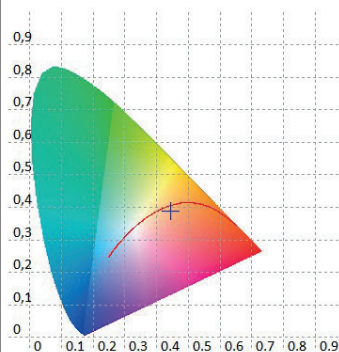
## BASIC

|     |          |
|-----|----------|
| CRI | : 15,6   |
| x   | : 0,4443 |
| y   | : 0,3895 |
| CCT | : 2758   |
| LUX | : 401,3  |

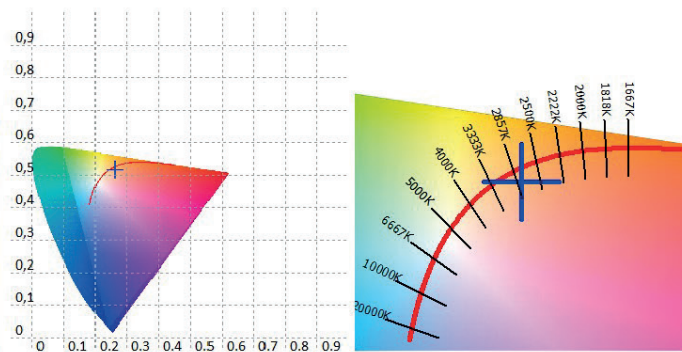
## Spectrum



## CIE1931



## CIE1976



## Macro 2700K Test Report

Medium Zoom @ 5m

## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:06:24 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :                     |                        |
| 2700                       |                        |

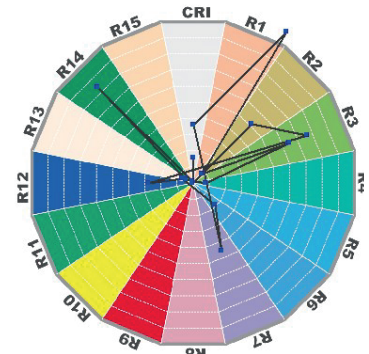
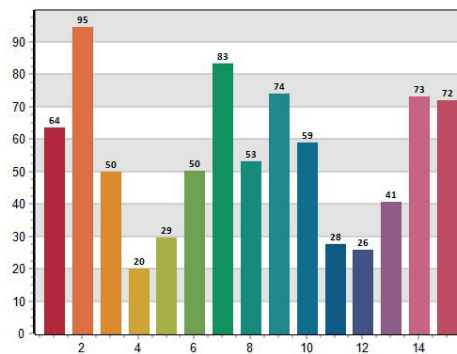
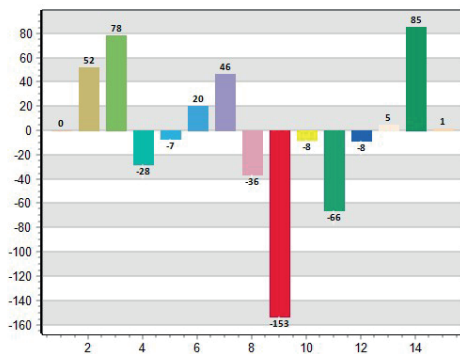
## BASIC

|     |          |
|-----|----------|
| CRI | : 15,6   |
| X   | : 0,4443 |
| Y   | : 0,3895 |
| CCT | : 2758   |
| LUX | : 401,3  |

## CRI: 15,62

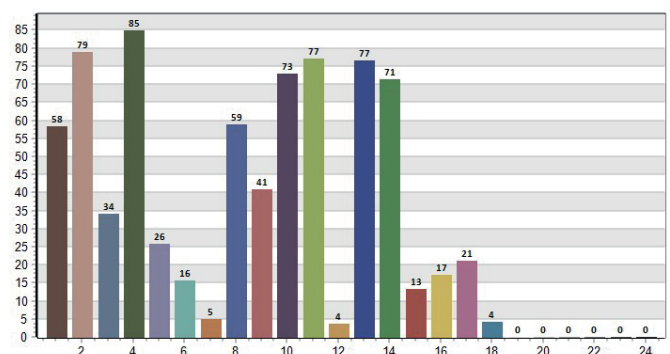
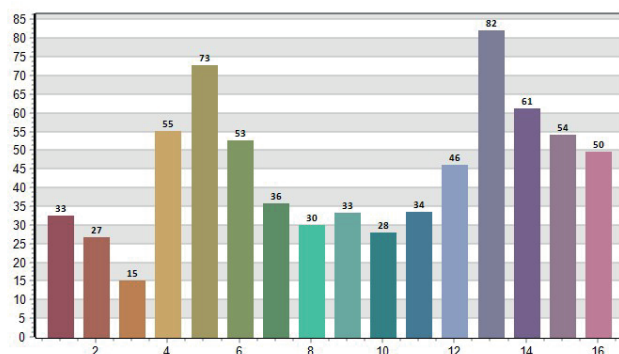
## CQS: 48,96

## CRI-2



## TM30: 49,22

## TLCI: 10,61



CRI values, only R1-R8 are used to calculate final CRI

| R1   | R2   | R3   | R4    | R5   | R6   | R7   | R8    | R9     | R10  | R11   | R12  | R13 | R14  | R15 |
|------|------|------|-------|------|------|------|-------|--------|------|-------|------|-----|------|-----|
| -0,3 | 52,2 | 78,0 | -27,9 | -7,1 | 20,0 | 46,4 | -36,5 | -153,3 | -7,7 | -65,7 | -8,3 | 4,8 | 85,2 | 1,3 |

TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 32,5 | 26,6 | 15,2 | 55,2 | 72,7 | 52,6 | 35,8 | 29,9 | 33,3 | 28,1 | 33,5 | 46,2 | 82,1 | 61,3 | 54,2 | 49,7 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 63,5 | 94,6 | 50,0 | 19,9 | 29,5 | 50,3 | 83,3 | 53,1 | 73,9 | 58,9 | 27,7 | 26,0 | 40,6 | 73,1 | 72,0 |

## RGBW @100% Spectrum Test Report

Medium Zoom @ 5m

**UPRtek**  
United Power Research Technology Corporation

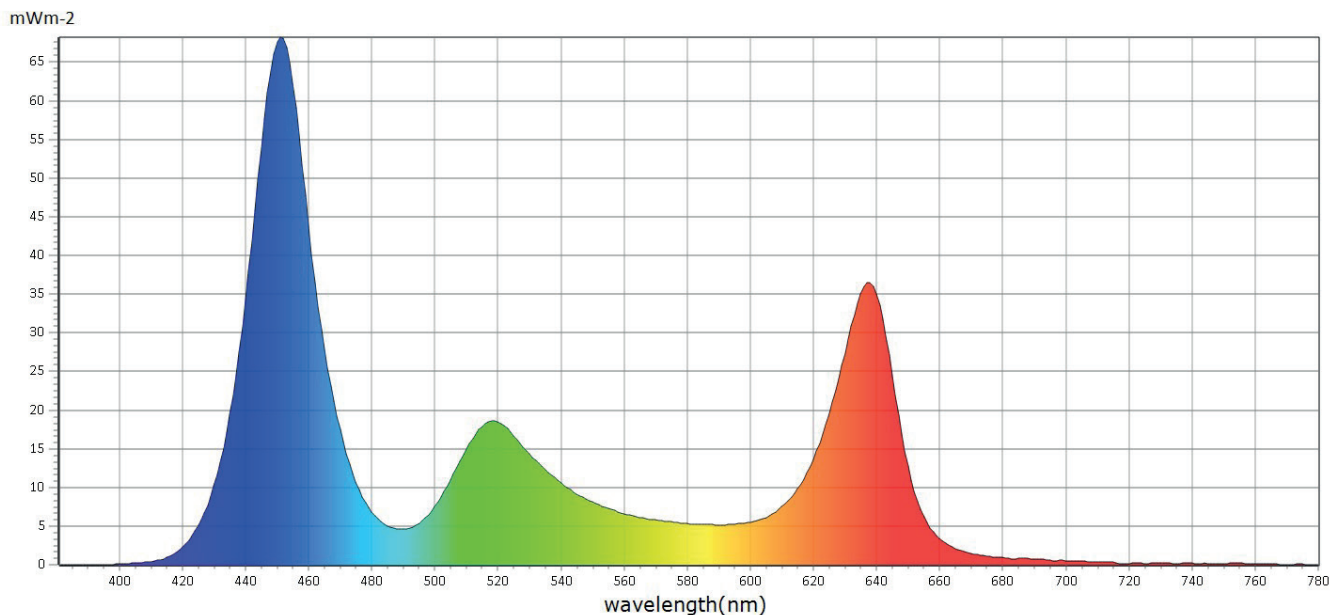
## ■ Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:09:54 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :                     |                        |
| FULL                       |                        |

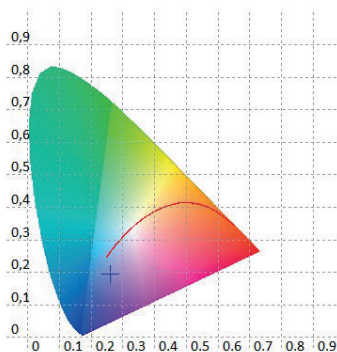
## ■ BASIC

|     |          |
|-----|----------|
| CRI | : 0,0    |
| x   | : 0,2611 |
| y   | : 0,1960 |
| CCT | : 0      |
| LUX | : 757,8  |

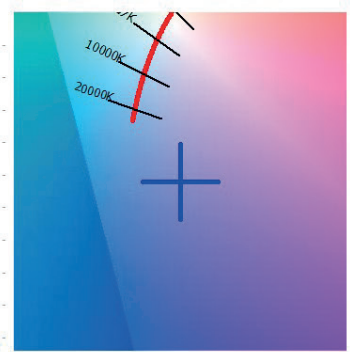
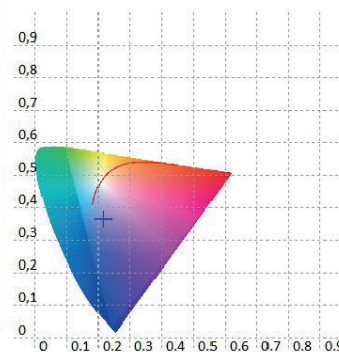
## ■ Spectrum



## ■ CIE1931



## ■ CIE1976





## Red @100% Spectrum Test Report

Medium Zoom @ 5m

**UPRtek**  
United Power Research Technology Corporation

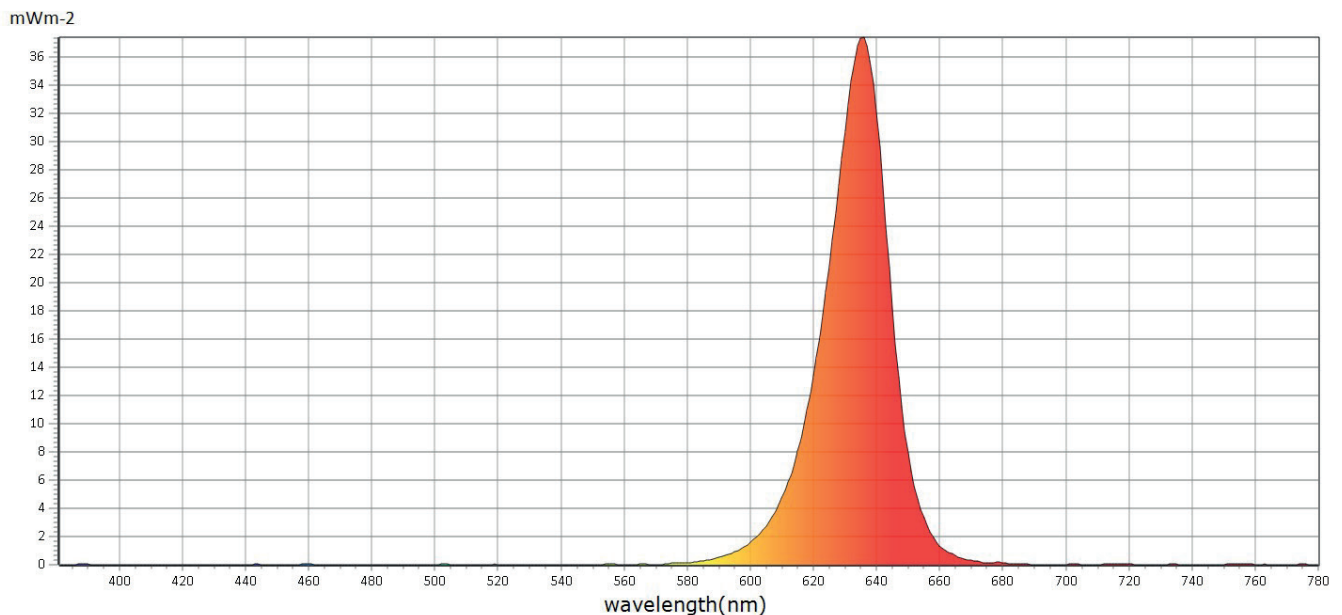
## ■ Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:09:37 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :                     |                        |
| RED                        |                        |

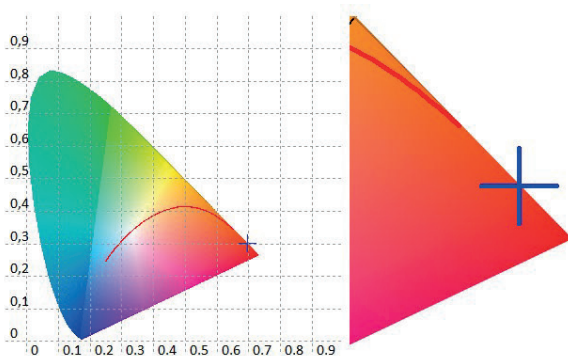
## ■ BASIC

|     |          |
|-----|----------|
| CRI | : 0,0    |
| x   | : 0,6958 |
| y   | : 0,3022 |
| CCT | : 0      |
| LUX | : 168,9  |

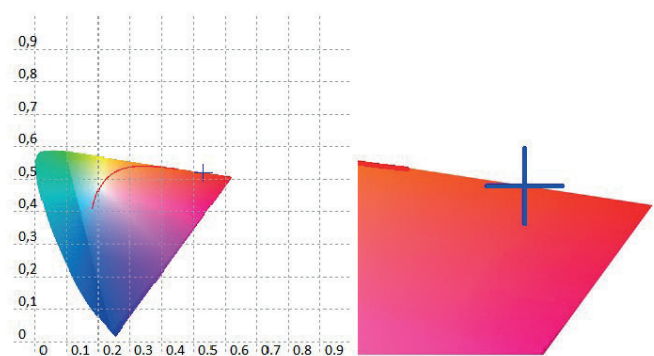
## ■ Spectrum



## ■ CIE1931



## ■ CIE1976





## Green @100% Spectrum Test Report

Medium Zoom @ 5m

**UPRtek**  
United Power Research Technology Corporation

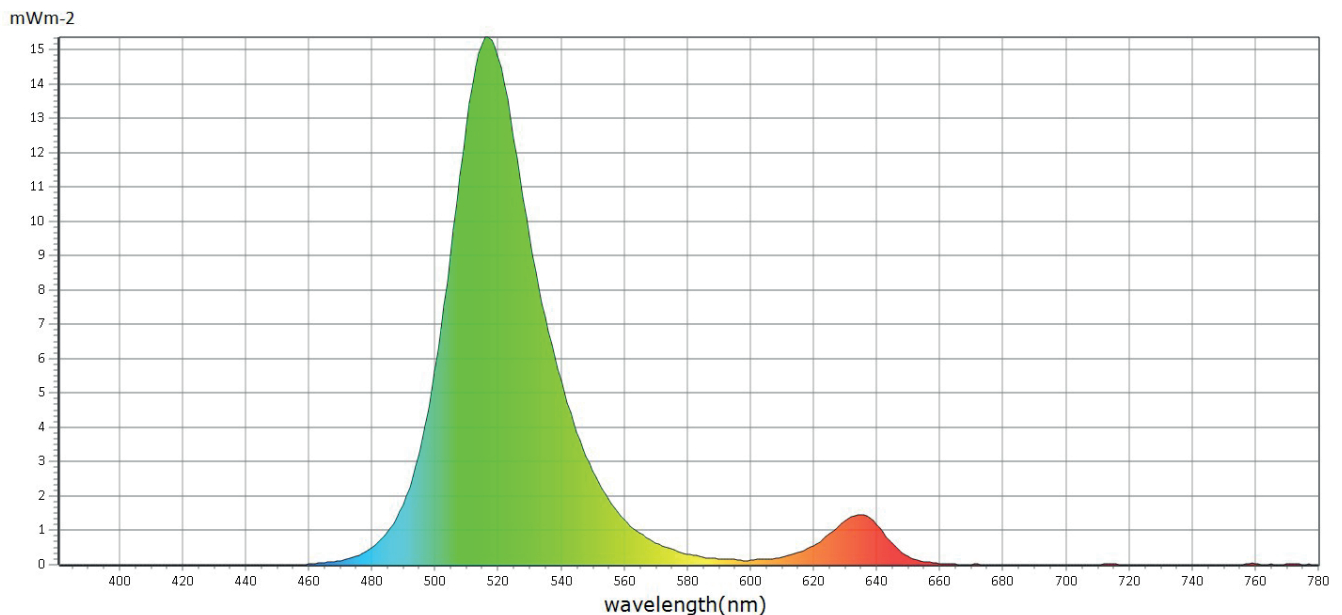
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:09:42 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :<br>GREEN            |                        |

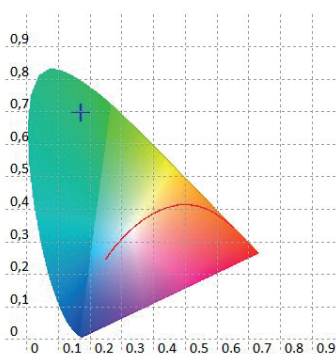
## BASIC

|     |          |
|-----|----------|
| CRI | : 0,0    |
| x   | : 0,1704 |
| y   | : 0,6987 |
| CCT | : 7948   |
| LUX | : 258,5  |

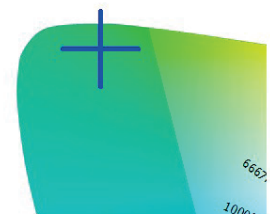
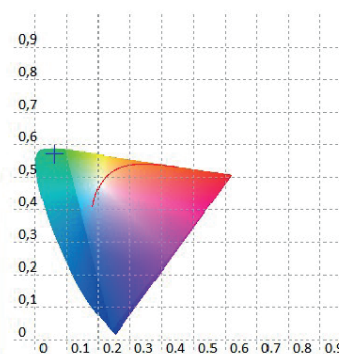
## Spectrum



## CIE1931



## CIE1976



## Blue @100% Spectrum Test Report

Medium Zoom @ 5m

**UPRtek**  
United Power Research Technology Corporation

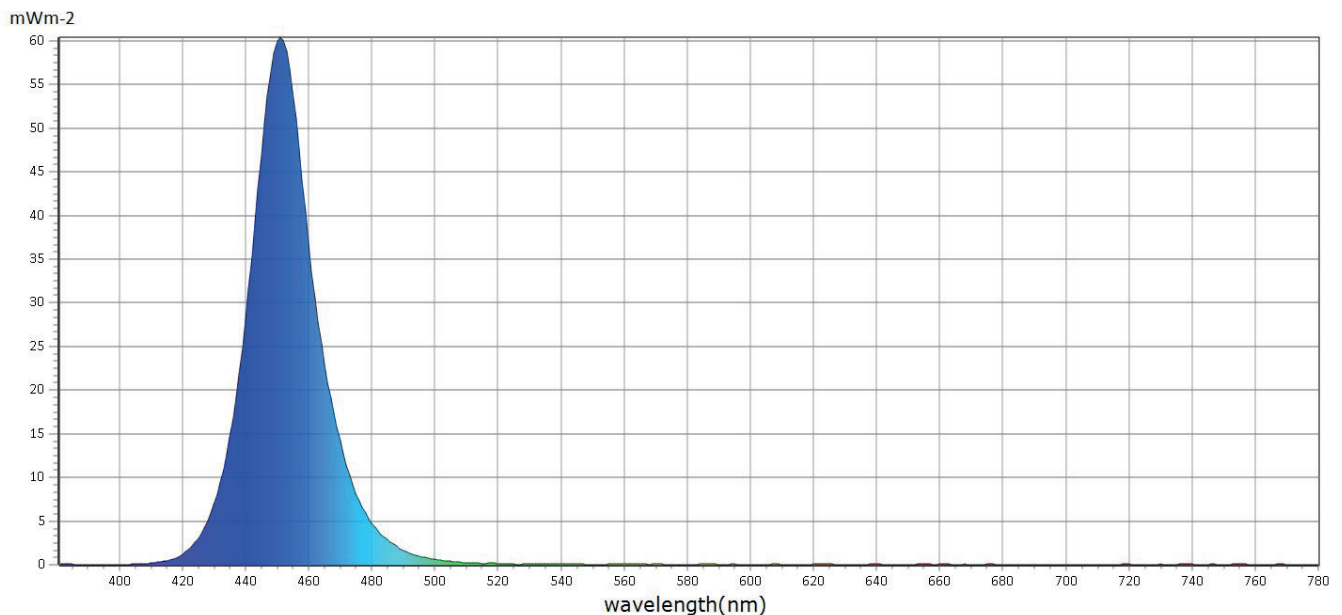
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:09:46 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :<br>BLUE             |                        |

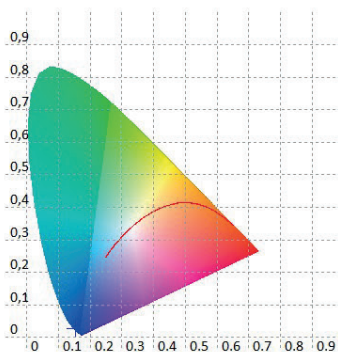
## BASIC

|     |          |
|-----|----------|
| CRI | : 0,0    |
| x   | : 0,1533 |
| y   | : 0,0264 |
| CCT | : 0      |
| LUX | : 55,30  |

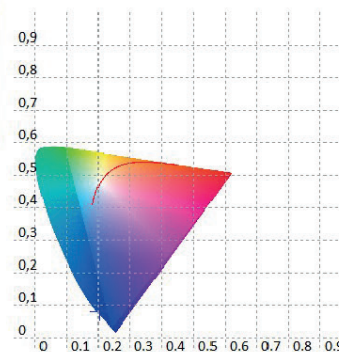
## Spectrum



## CIE1931



## CIE1976



## White @100% Spectrum Test Report

Medium Zoom @ 5m

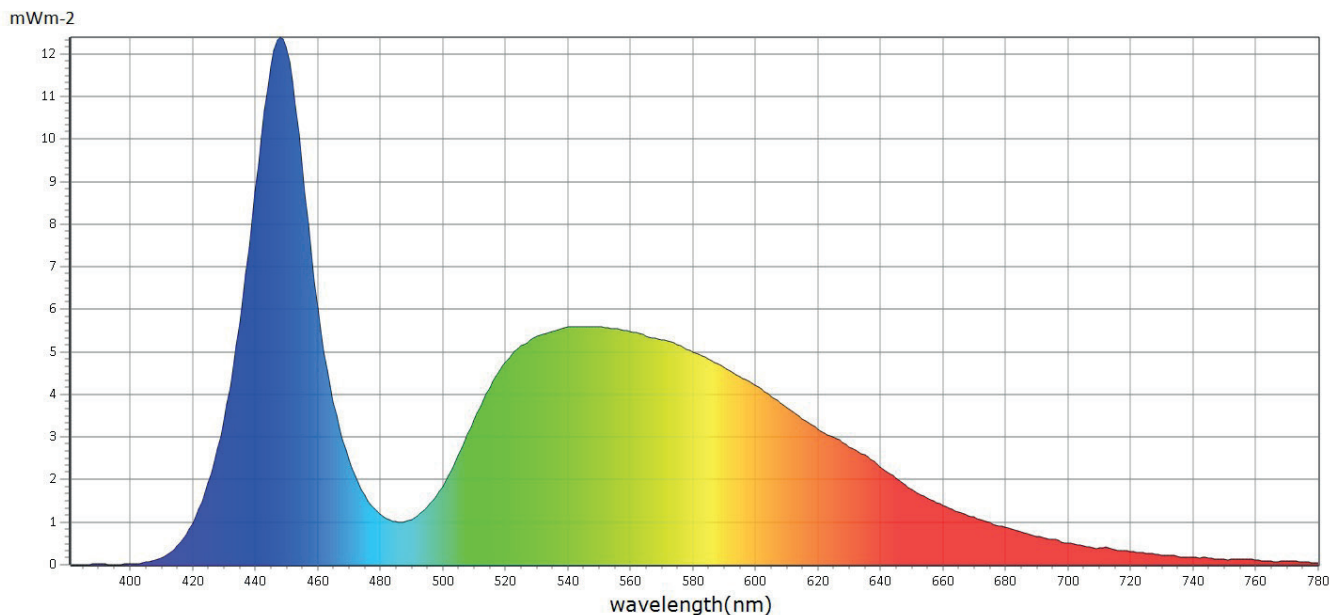
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:09:50 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :                     |                        |
| WHITE                      |                        |

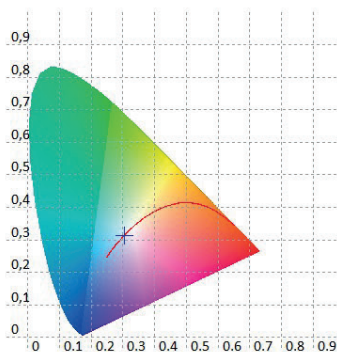
## BASIC

|     |          |
|-----|----------|
| CRI | : 72,8   |
| x   | : 0,3042 |
| y   | : 0,3137 |
| CCT | : 7177   |
| LUX | : 330,4  |

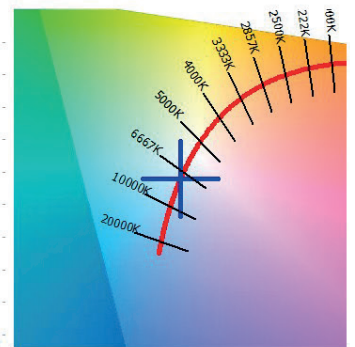
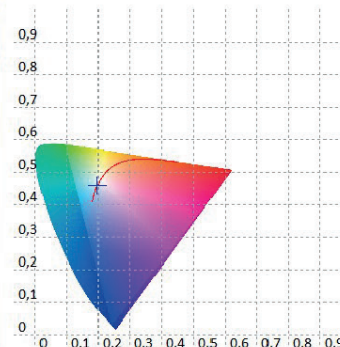
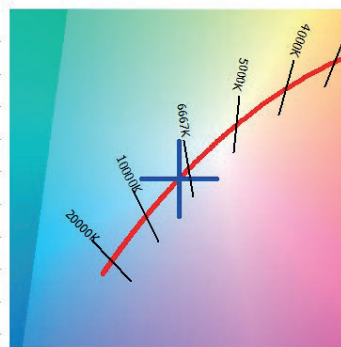
## Spectrum



## CIE1931



## CIE1976



## White @100% Spectrum Test Report

Medium Zoom @ 5m

UPRtek  
United Power Research Technology Corporation

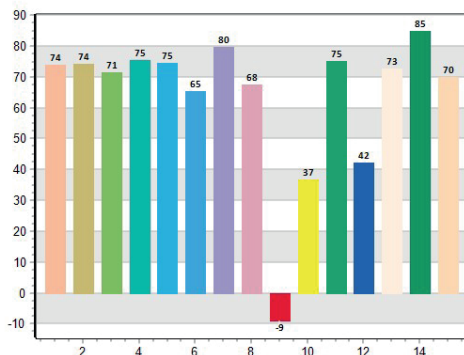
## Information

|                            |                        |
|----------------------------|------------------------|
| User :                     | Measure Time :18:09:50 |
| Model NO. : MK350S PREMIUM | Light Source :         |
| Memo :                     |                        |
| WHITE                      |                        |

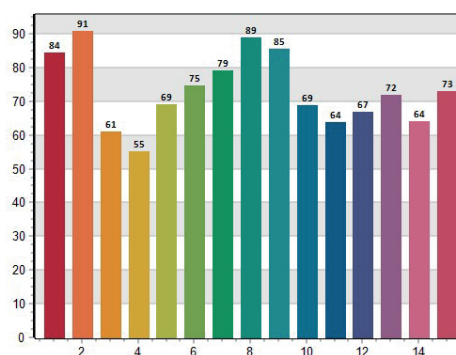
## BASIC

|     |          |
|-----|----------|
| CRI | : 72,8   |
| X   | : 0,3042 |
| Y   | : 0,3137 |
| CCT | : 7177   |
| LUX | : 330,4  |

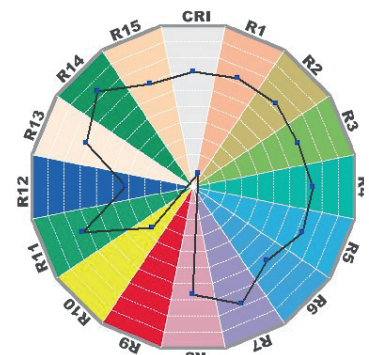
## CRI: 72,76



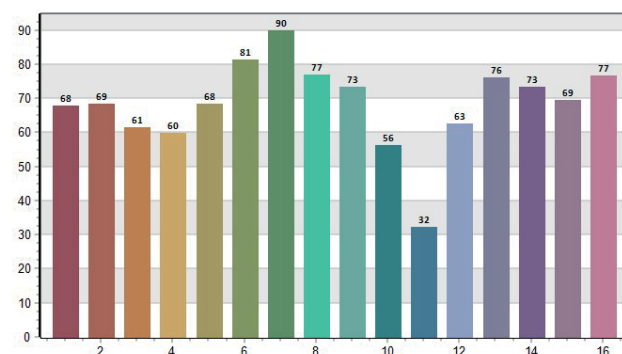
## CQS: 71,22



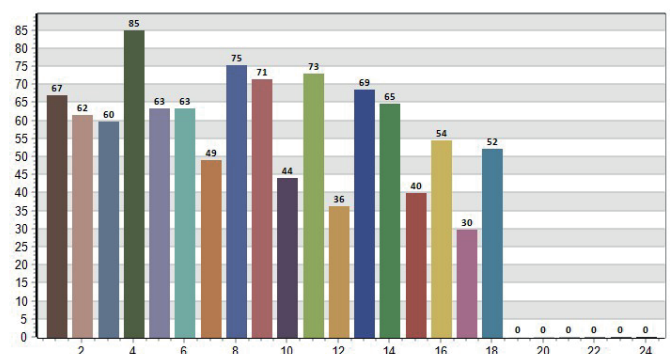
## CRI-2



## TM30: 71,56



## TLCI: 51,53



CRI values, only R1-R8 are used to calculate final CRI

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9   | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 73,9 | 74,2 | 71,4 | 75,4 | 74,5 | 65,3 | 79,8 | 67,6 | -9,0 | 36,7 | 75,0 | 42,2 | 72,5 | 84,9 | 69,9 |

TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 67,7 | 68,5 | 61,5 | 59,8 | 68,4 | 81,5 | 89,9 | 76,8 | 73,5 | 56,2 | 32,3 | 62,7 | 76,1 | 73,5 | 69,4 | 76,7 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 84,3 | 90,9 | 60,9 | 55,2 | 69,0 | 74,8 | 79,1 | 89,0 | 85,4 | 68,8 | 63,9 | 67,0 | 71,8 | 64,1 | 73,0 |



---

---

# *Starway*

22 Rue Édouard Buffard  
77144 Montevrain  
France

[starway.eu](http://starway.eu)

---

---